PB-239 699

LAKE WINNIPESAUKEE, CARROLL AND BELKNAP COUNTIES, NEW HAMPSHIRE

Pacific Northwest Environmental Research Laboratory

Prepared for:

New Hampshire National Guard
New Hampshire Water Supply and Pollution Control
National Environmental Research Center

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16. ABSTRACT
Annual total phosphorus and total nitrogen loadings to the lake were estimated and subdivded according to either point or non-point source origin. An assessment of the lake's trophic condition and limiting nutrient is also provided. All data collected by the U.S.E.P.A. National Eutrophication Survey during the one year study of the lake and its tributaries are included in the report.

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REPORT

ON

LAKE WINNIPESAUKEE

CARROLL AND BELKNAP COUNTIES

NEW HAMPSHIRE

EPA REGION I

WORKING PAPER No. 11

WITH THE COOPERATION OF THE

NEW HAMPSHIRE WATER SUPPLY AND POLLUTION CONTROL COMMISSION

AND THE

NEW HAMPSHIRE NATIONAL GUARD

MAY, 1974

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FOREWORD

The National Eutrophication Survey was initiated in 1972 as a research project in response to an Administration commitment to investigate the nationwide threat of accelerated eutrophication to fresh water lakes and reservoirs.

OBJECTIVES

The Survey was designed to develop, in conjunction with state environmental agencies, information on nutrient sources, concentrations and impact on selected fresh water lakes as a basis for formulating comprehensive and coordinated national, regional and state management practices relating to point-source discharge reduction and non-point source pollution abatement in lake watersheds.

ANALYTIC APPROACH

The mathematical and statistical procedures selected for the Survey's eutrophication analysis are based on related concepts that:

a. A generalized representation or model relating sources, concentrations and impacts can, in fact, be constructed.

b. By applying measurements of relevant parameters associated with lake degradation, the generalized model can be transformed into an operational representation of a lake, its drainage basin and related nutrients.

c. With such a transformation, an assessment of the potential for eutrophication control can be made.

LAKE ANALYSIS

This report documents the first stage of evaluation of lake and watershed data collected from the study lake and its drainage basin. It is formatted to provide state environmental agencies with specific information for basin planning [§303(e)], water quality criteria/ standards review [§303(c)], clean lakes [§314(a,b)], and water quality monitoring [§106 and §305(b)] activities mandated by the Federal Water Pollution Control Act Amendments of 1972.

Beyond the single lake analysis, broader based correlations between nutrient concentrations (and loading) and trophic condition are being made to advance the rationale and data base for refinement of nutrient water quality criteria for the Nation's fresh water lakes. Likewise, multivariate evaluations for the relationships between land use, nutrient export and trophic condition, by lake class or use, are being developed to assist in the formulation of planning guidelines and policies by EPA and to augment plans implementation by the states.

ACKNOWLEDGMENT

The staff of the National Eutrophication Survey (Office of Research & Development, U. S. Environmental Protection Agency) expresses sincere appreciation to the New Hampshire Water Supply and Pollution Control Division for professional involvement and to the New Hampshire National Guard for conduct of the tributary sampling phase of the Survey.

William A. Healy, Executive Director of the New Hampshire Water Supply and Pollution Control Commission, Ronald E. Towne, Water Pollution Biologist, and Kenneth MacDonald, Chief Water Pollution Sanitarian, provided invaluable lake documentation and counsel during the course of the Survey.

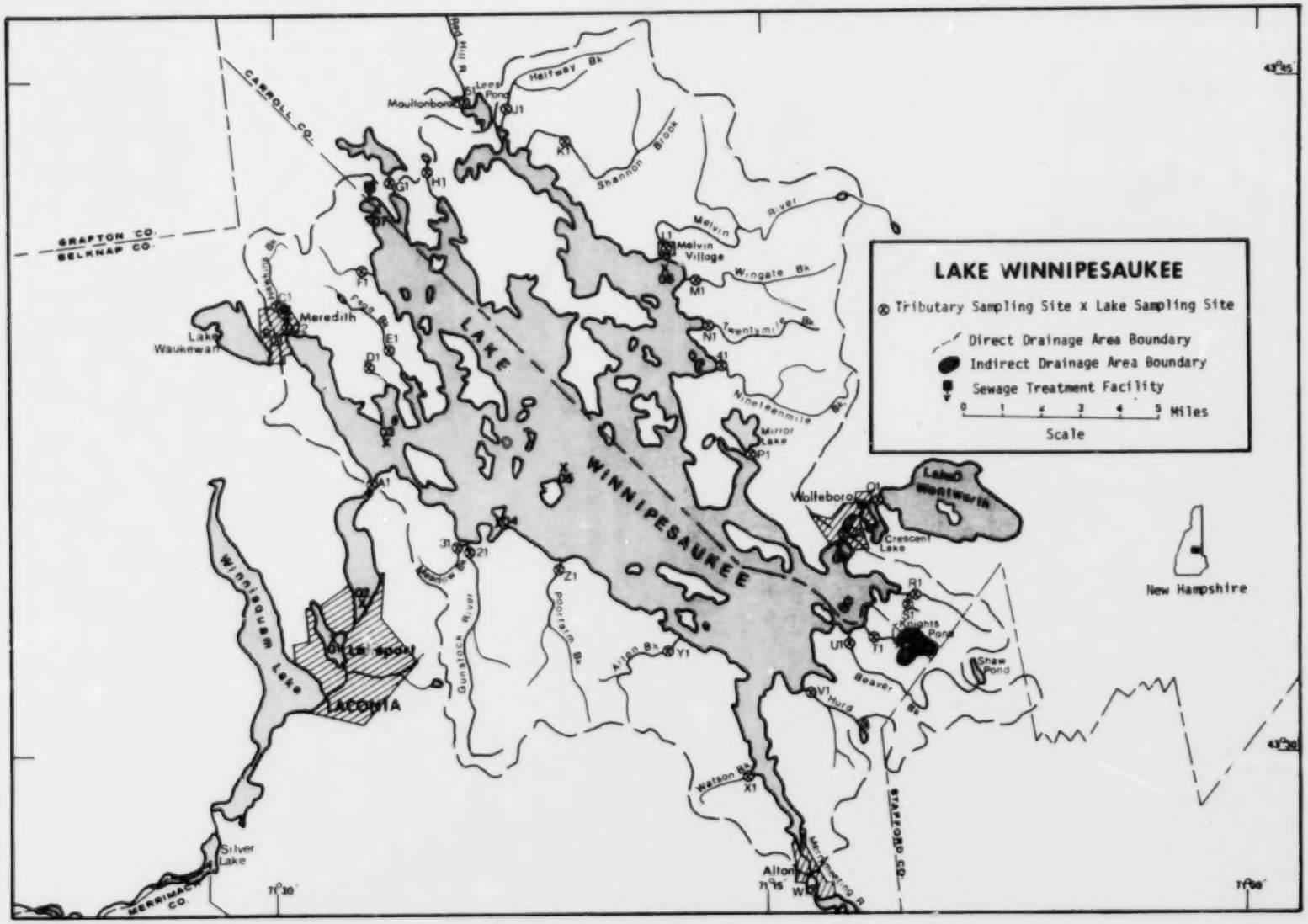
Major General Francis B. McSwiney, the Adjutant General of New Hampshire, and Project Officer Lieutenant Colonel Russ Grady, who directed the volunteer efforts of the New Hampshire National Guardsmen, are also gratefully acknowledged for their assistance to the Survey.

NATIONAL EUTROPHICATION SURVEY

STUDY LAKES

STATE OF NEW HAMPSHIRE

LAKE NAME	COUNTY
Glen Lake	Hillsborough
Lake Winnipesaukee	Carroll, Belknap
Kelly's Falls Pond	Hillsborough
Powder Mill Pond	Hillsborough


LAKE WINNIPESAUKEE
Tributary Sampling Site x Lake Sampling Site
Direct Drainage Area Boundary
Indirect Drainage Area Boundary
Sewage Treatment Facility
0 1 2 3 4 5 Miles
Scale
New Hampshire
LAKE WINNIPESAUKEE
Lake Waukewan
Meredith
Lake Winnisquam
LACONIA
Silver Lake
Gunstock River
Alton Bay
Wolfeboro
Lake Wentworth
Crescent Lake
Melvin Village
Melvin River
Shannon Brook
Halfway Br
Twentymile Br
Nineteenmile Br
Wingate Br
Mirror Lake
Knights Pond
Shaw Pond
Beaver Br
Hurd
Watson Br
Merrimack River
Maultonboro
Leavitt Pond
Rock Hill R
Pine R
Meadow Br
Poorfarm Br
Alton Br
CARROLL CO.
GRAFTON CO.
BELKNAP CO.
MERRIMACK CO.
STRAFFORD CO.

LAKE WINNEPESAUKEE

STORET NO. 3303

I. CONCLUSIONS

A. Trophic Condition:

At this time the main body of Lake Winnipesaukee is considered oligotrophic. Generally, water quality is excellent, but there are problems where heavy nutrient loadings occur. Wolfeboro Bay, Center Harbor Bay, Alton Bay, Gilford Bay, Melvin Bay, and Meredith Bay are areas with excessive nutrient loadings.

During Survey sampling, dissolved oxygen values ranged from 7.0 mg/l to 12.9 with a mean value of 9.5 mg/l for all samples taken. Minimum D.O. values from the hypolimnion were never below 7.0 mg/l. The water quality in Lake Winnipesaukee can most likely be prevented from deteriorating if measures are taken now to reduce the nutrient loading from point sources.

B. Rate Limiting Nutrient:

The results of the algal assays show that Lake Winnipesaukee was phosphorus limited at the time the samples were collected.

C. Nutrient Controllability:

Nutrient loadings to Lake Winnipesaukee, in total, are relatively low at this time and result in little apparent effect on the main body of the lake. However, because of intense loading

in certain bay areas, serious potential damage exists for the entire lake.

1. Point sources--Approximately 45% of the total annual phosphorus input to the lake originates from point source inputs from four municipalities. These same municipalities are responsible for only 8% of the total nitrogen input.

2. Non-point sources--33% of the annual phosphorus input originates from sampled and unsampled tributaries and immediate drainage to the lake. No single tributary contributes a significant percentage of the load and land use controls would be of little value in further reducing the phosphorus input from non-point sources.

Approximately 40% of the total nitrogen load to the lake originates from non-point sources in the watershed. The estimated nitrogen load in direct precipitation on the lake surface also accounts for 40% of the total input.

It is concluded that removal of phosphorus from all waste treatment plant discharges to Lake Winnipesaukee would benefit the lake. It is noted that in New Hampshire's Merrimack River Basin Water Quality Management Plan (Anonymous, 1973), Phase III priorities are given to the preservation ("perpetual protection") of the high quality of Lake Winnipesaukee by means of a policy of "no discharge".

II. INTRODUCTION

Lake Winnipesaukee (see map, page v) is the second largest lake within New England. It is well known as a prime recreational area for boating and fishing and is a most impressive subject for artists and photographers (Yeo, 1971).

Lake Winnipesaukee is a natural lake, though the water level has been raised by damming, and has been stocked with salmon, whitefish, smelt, and smallmouth bass. The lake is considered an excellent salmonid water.

The economies of the towns and communities surrounding Lake Winnipesaukee are closely associated with the tourist and recreational attractions offered by this lake.

III. LAKE AND DRAINAGE BASIN CHARACTERISTICS

A. Lake Morphometry*:

1. Surface area: 44,586 acres.
2. Mean depth: 43** feet.
3. Maximum depth: 180+ feet.
4. Volume: 1,926,115 acre/feet.
5. Mean hydraulic retention time: 4 years

B. Tributary and Outlet:
(See Appendix A for flow data)

1. Tributaries -

Name	Drainage area†	Mean flow†
Lake Waukewan outlet	13.0 mi^2	22.7 cfs
Hawkins Brook	3.3 mi^2	5.9 cfs
Mead Brook	0.3 mi^2	4.2 cfs
Page Brook	2.4 mi^2	4.2 cfs
No Name (F1)	1.3 mi^2	2.2 cfs
Lake Kanasatka outlet	9.5 mi^2	16.8 cfs
No Name (H1)	0.5 mi^2	1.0 cfs
Halfway Brook	2.5 mi^2	4.4 cfs
Shannon Brook	7.0 mi^2	12.4 cfs
Melvin River	16.3 mi^2	28.8 cfs
Wingate Brook	2.4 mi^2	4.2 cfs

* New Hampshire Fish and Game Dept., Winnepesaukee Lake Contour Sounding Map (1966).

** Random-dot method; see Appendix D.

† Drainage areas are accurate within ±1%, gaged mean annual flows within ±15% and ungaged mean annual flows within ±20%.

Name	Drainage area	Mean flow
Twenty Mile Brook	3.4 mi^2	6.0 cfs
Mirror Lake outlet	3.3 mi^2	5.9 cfs
Front Bay outlet	38.7 mi^2	68.3 cfs
Rust Pond outlet	2.4 mi^2	4.3 cfs
No Name (S1)	1.2 mi^2	2.1 cfs
Knights Pond outlet	0.8 mi^2	1.5 cfs
Beaver Brook	8.0 mi^2	14.1 cfs
Hurd Brook	3.5 mi^2	6.1 cfs
Merry Meeting River	28.8 mi^2	50.8 cfs
Watson Brook	3.1 mi^2	5.5 cfs
Alton Brook	3.8 mi^2	6.7 cfs
Poorfarm Brook	6.5 mi^2	11.3 cfs
Gunstock River	9.3 mi^2	16.5 cfs
Meadow Brook	1.4 mi^2	2.5 cfs
Nineteen Mile Brook	6.4 mi^2	11.2 cfs
Red Hill River*	25.7 mi^2	45.3 cfs
Minor tributaries and immediate drainage -	88.6 mi^2	279.3 cfs
Totals	293.3 mi^2	644.4 cfs
2. Outlet -		
Paugus Bay inlet	363.0 mi^2**	644.4 cfs

* Drainage area planimetered from U.S.G.S. 1:250,000 map; flow based on U.S.G.S. runoff coefficient of 1.76 cfs/mi^2.

** Includes area of lake.

C. Precipitation*:

1. Year of sampling: 45.7 inches.

2. Mean annual: 40.8 inches.

* See Working Paper No. 1, "Survey Methods".

IV. LAKE WATER QUALITY SUMMARY

Lake Winnipesaukee was sampled three times during the open-water season of 1972 by means of a pontoon-equipped Huey helicopter. Each time, samples for physical and chemical parameters were collected from six stations in the lake proper and two in Paugus Bay (see map, page v) and from a number of depths at each station. During each visit, a single depth-integrated (15 feet to surface) sample was composited from eight stations for phytoplankton identification and enumeration; and during the last visit (during fall overturn), a five-gallon depth-integrated sample was composited from Stations 1, 2, 3, and 4 and a similar sample was composited from Stations 5, 6, 7, and 8 for algal assays. Also each time, depth-integrated samples were collected at the stations for chlorophyll a analyses. Maximum depths sampled were 52 feet at station 1, 19 feet at station 2, 25 feet at station 3, 15 feet at station 4, 50 feet at station 5, 38 feet at station 6, 29 feet at station 7, and 28 feet at station 8.

Although data from stations 1 and 2 (Paugus Bay) were not included in evaluation of the lake for this report, samples were included in one of the composited algal assay samples. However, there was little difference in the results of the assay as compared to the results of the assay of a second sample composited from the lake proper.

The results obtained are presented in full in Appendix B, and the data for the fall sampling period, when the lake was essentially well-mixed, are summarized below. Note, however, the Secchi disc summary is based on all values.

For differences in the various parameters at the other sampling times, refer to Appendix B.

A. Physical and chemical characteristics*:

FALL VALUES

(10/08/72)

Parameter	Minimum	Mean	Median	Maximum
Temperature (Cent.)	15.9	16.3	16.3	16.6
Dissolved oxygen (mg/l)	8.3	8.8	8.8	9.2
Conductivity (μmhos)	50	56	55	60
pH (units)	6.6	7.0	7.1	7.4
Alkalinity (mg/l)	10	10	10	10
Total P (mg/l)	0.004	0.006	0.006	0.015
Dissolved P (mg/l)	0.001	0.003	0.003	0.005
NO_2 + NO_3 (mg/l)	0.010	0.017	0.020	0.020
Ammonia (mg/l)	0.020	0.033	0.030	0.050

ALL VALUES

Secchi disc (inches)	156	221	220	312

* Data from stations 1 and 2 (Paugus Bay) not included

B. Biological characteristics:

1. Phytoplankton -

Sampling Date	Dominant Genera	Number per ml
06/02/72	1. Dinobryon	922
	2. Anabaena	63
	3. Stephanodiscus	50
	4. Tabellaria	23
	5. Ankistrodesmus	14
	Other genera	31
	Total	1,103
08/06/72	1. Dinobryon	211
	2. Anabaena	51
	3. Cryptomonas	29
	4. Polycystis	19
	5. Synedra	17
	Other genera	87
	Total	414
10/08/72	1. Dinobryon	537
	2. Oscillatoria	199
	3. Polycystis	109
	4. Fragilaria	84
	5. Achnanthes	36
	Other genera	180
	Total	1,145

2. Chlorophyll a -
(Because of instrumentation problems during the 1972 sampling, the following values may be in error by plus or minus 20 percent. However, it is evident that most of the chlorophyll a levels were quite low).

Sampling Date	Station Number	Chlorophyll a (µg/l)
06/02/72	03	2.1
	04	3.5
	05	3.0
	06	3.2
	07	2.2
	08	5.6
08/06/72	03	1.0
	04	0.7
	05	0.8
	06	1.8
	07	0.7
	08	2.0
10/08/72	03	2.1
	04	1.7
	05	1.8
	06	2.1
	07	2.1
	08	1.9

C. Limiting Nutrient Study:

1. Autoclaved, filtered, and nutrient spiked -
(Sites 1, 2, 3, and 4)*

Spike (mg/l)	Ortho P Conc. (mg/l)	Inorganic N Conc. (mg/l)	Maximum yield (mg/l-dry wt.)	N/P Ratio
Control	0.003	0.063	0.1	21/1
0.006 P	0.009	0.063	0.1	7/1
0.012 P	0.015	0.063	0.2	
0.024 P	0.027	0.063	0.2	
0.060 P	0.063	0.063	0.2	
0.060 P + 10.0 N	0.063	10.063	19.6	
10.0 N	0.003	10.063	0.1	

* This assay sample includes water from Sites 1 and 2 (Paugus Bay).

2. Autoclaved, filtered, and nutrient spiked - (Sites 5, 6, 7, and 8)

Spike (mg/l)	Ortho P Conc. (mg/l)	Inorganic N Conc. (mg/l)	Maximum yield (mg/l-dry wt.)	N/P Ratio
Control	0.003	0.039	0.1	13/1
0.006 P	0.009	0.039	0.1	4/1
0.012 P	0.015	0.039	0.2	
0.024 P	0.027	0.039	0.3	
0.060 P	0.063	0.039	0.2	
0.060 P + 10.0 N	0.063	10.039	13.6	
10.0 N	0.003	10.039	0.1	

3. Discussion -

The two composite samples taken from Lake Winnipesaukee for limiting nutrient studies showed similar results. The control yield of the algal assay showed that the potential primary productivity of Lake Winnipesaukee was very low at the time the sample was collected as were the levels of the primary nutrients.

The N/P ratios of the control samples, plus the lack of response to the nitrogen only spike show that the control samples were phosphorus limited. However, the first phosphorus spike of only 6 µg/l tripled the orthophosphorus concentration in the samples and nitrogen became limiting, so there was no significant yield response to phosphorus (note the N/P ratios after the first addition of phosphorus). Because of the very low levels of both nutrients, the samples essentially were co-limited, and the only significant yield response occurred when both nitrogen and phosphorus were added.

The lake data indicate that phosphorus was limiting at the other sampling times; i.e., N/P ratios were greater than 14/1, and phosphorus limitation would be expected.

D. Trophic Condition:

From an examination of the Lake Winnipesaukee nutrient data obtained during the Survey (see Appendix B), it is concluded that the main body of this lake is oligotrophic. However, certain areas of the lake receive heavy nutrient loadings and localized problems are evident. Meredith Bay, Alton Bay, Wolfeboro, Melvin Bay, and Gilford Bay are such areas.

Present loadings from point sources surrounding Lake Winnipesaukee have resulted in a lowering of the water quality in the vicinity of the discharges. Even with the extremely large area and volume of this lake, inevitably these loads will cause an overall degradation of water quality in the main body of the lake.

Lake sampling data indicate low to moderate levels of chlorophyll _a_ in some of these areas at the time of sampling. Site 6 (Wolfeboro Bay) and Site 8 (Melvin Bay) exceeded the overall mean (2.07 mg/l) chlorophyll _a_ value while Site 7 (Center Harbor) had the lowest mean value (1.67 mg/l).

Levels of other parameters were moderate to low. Lake Winnipesaukee compares quite favorably with other lakes studied in 1972

(over 200) in that 98% had higher mean total phosphorus, 99% had higher mean inorganic nitrogen and mean dissolved phosphorus, and 95% had higher mean chlorophyll *a* values.

V. NUTRIENT LOADINGS*

For the determination of nutrient loadings, from August, 1972, through August, 1973, the New Hampshire National Guard collected monthly near-surface grab samples from each of the tributary sites indicated on the map (page v), except for the high runoff months of March and April, 1973, when two samples were collected and in October, 1972, when several sites were omitted because of low flows.

Through an interagency agreement, estimated flows for the year of sampling and a "normalized" or average year were provided by the New England District Office of the U.S. Geological Survey.

In this report, nutrient loads for sampled tributaries were calculated using mean concentrations and mean flows. Nutrient loadings for unsampled "minor tributaries and immediate drainage" ("ZZ" of U.S.G.S.) were estimated by using the mean of the nutrient loads, in $lbs/mi^2/year$, in all unimpacted tributaries and multiplying the means by the ZZ area in mi^2.

The operators of the Wolfboro and Meredith wastewater treatment plants provided monthly effluent samples and corresponding flow data. Loadings for unsampled point sources, including septic tanks, were estimated and seasonally adjusted (see Working Paper No. 1, "Survey Methods").

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* Based on sampling frequency and variations in concentrations, single tributary loadings for gaged sites are believed to be within ±16% of the true value 67% of the time and within ±32% of the true value 95% of the time.

A. Waste Sources:

1. Municipal -

Name	Pop. Served	Treatment	Mean Flow (mgd)	Receiving Water
Meredith	2,904	Trickling filter	0.250	Hawkins Brook
Wolfeboro	3,036	Primary	0.450	Lake Winnipesaukee
Alton	1,647	Septic tanks	--	
Central Harbor	540	Ponds	0.054*	Small stream in area of Moultonboro
Moultonboro	1,310	Ponds	0.131*	Small stream in area of Moultonboro
Gilford	3,219	Septic tanks	--	
Tuftonboro	910	Septic tanks	--	

2. Industrial -

Name	Product	Treatment	Mean Flow (g/y)	Receiving Water
American Asbestos Corp.			100,000	(Meredith Sewage System)
Beede's Snow White Coin-A-Matic			480,000	(Meredith Sewage System)

* Estimated (100 g/per capita/day).

B. Annual Total Phosphorus Loading - Average Year:

1. Inputs -

Source	lbs P/ yr	% of total
a. Tributaries (non-point load) -		
Lake Waukewan outlet	630	1.2
Hawkins Brook	490	1.0
Mead Brook	20	<0.1
Page Brook	260	0.5
No Name (F-1)	70	0.1
Lake Kanasatka outlet	260	0.5
No Name (H-1)	30	<0.1
Halfway Brook	110	0.2
Shannon Brook	340	0.7
Melvin River	960	2.0
Wingate Brook	150	0.3
Twenty Mile Brook	210	0.4
Mirror Lake outlet	160	0.3
Front Bay outlet*	1,600	3.3
Rust Pond outlet	110	0.2
No Name (S-1)	80	0.2
Knights Pond outlet	60	0.1
Beaver Brook	440	0.9
Hurd Brook	240	0.5
Merry Meeting River	1,500	3.0
Watson Brook	190	0.4
Alton Brook	260	0.5
Poorfarm Brook	540	1.1
Gunstock River	780	1.6
Meadow Brook	160	0.3
Nineteen Mile Brook	380	0.8
Red Hill River	1,430	2.9
Tributary Totals	11,460	23.3

* See discussion, page 20.

Source	lbs P/ yr	% of total
b. Minor tributaries & immediate drainage (non-point load)* -	4,960	10.1
c. Municipal STP's -		
Wolfeboro**	8,200	16.7
Meredith	5,210	10.6
Bay Area (Center Harbor-Moultonboro)	8,650	17.6
d. Septic tanks* -	3,770	7.7
e. Industrial -		
American Asbestos Corp. Beede's Coin-A-Matic Meredith Steam Laundry	Meredith Treatment Facility	
f. Direct Precipitation* -	6,960	14.1
Totals	49,210	100.0

2. Outputs -

   Lake outlet (to Paugus Bay) 11,420

3. Net annual P accumulation - 37,790 pounds.

* Estimated; see Working Paper No. 1, "Survey Methods".
** See discussion, page 20.

C. Annual Total Nitrogen Loading - Average Year:

1. Inputs -

Source	lbs N/ yr	% of total
a. Tributaries (non-point load) -		
Lake Waukewan outlet	16,270	1.5
Hawkins Brook	7,190	0.7
Mead Brook	410	<0.1
Page Brook	5,140	0.5
No Name (F-1)	1,560	0.1
Lake Kanasatka outlet	8,880	0.8
No Name (H-1)	1,010	0.1
Halfway Brook	6,820	0.6
Shannon Brook	14,400	1.3
Melvin River	38,220	3.6
Wingate Brook	4,900	0.5
Twenty Mile Brook	5,990	0.6
Mirror Lake outlet	7,560	0.7
Front Bay outlet	44,280	4.1
Rust Pond outlet	2,920	0.3
No Name (S-1)	1,710	0.2
Knights Pond outlet	1,610	0.1
Beaver Brook	15,030	1.4
Hurd Brook	6,170	0.6
Merry Meeting River	49,300	4.6
Watson Brook	3,710	0.3
Alton Brook	3,890	0.4
Poorfarm Brook	10,620	1.0
Gunstock River	22,210	2.1
Meadow Brook	4,720	0.4
Nineteen Mile Brook	11,430	1.1
Red Hill River	40,670	3.8
Tributary Totals	336,620	31.3

Source		lbs N/ yr	% of total
b.	Minor tributaries & immediate drainage (non-point load)* -	145,660	13.6
c.	Municipal STP's -		
	Wolfeboro	24,820	2.3
	Meredith	15,760	1.5
	Bay Area (Center Harbor-Moultonboro)*	41,930	3.9
d.	Septic tanks*-	80,070	7.5
e.	Industrial -		
	American Asbestos Corp. Beede's Coin-A-Matic Meredith Steam Laundry	Meredith Sewage System	
f.	Direct precipitation*	429,540	40.0
	Totals	1,074,400	100.0

2. Outputs -

   Lake Outlet (to Paugus Bay) 299,390

3. Net annual N accumulation - 775,010 pounds

* Estimated; see Working Paper No. 1, "Survey Methods".

D. Discussion:

Nutrient data from the Wolfeboro STP indicate that 8,200 pounds P/yr are discharged from the plant to Front Bay. Also, data from the brook above Front Bay (Station Q-1) indicate that 1,600 pounds P/yr reach that point from areal (non-point) sources. The STP and brook phosphorus loads combined, then, amount to 9,800 lbs/yr. However, at the Front Bay outlet sampling station (Q-2), only 6,190 pounds of phosphorus could be accounted for during the Survey sampling year.

It is apparent from these data that there is phosphorus entrapment in Front Bay between the Q-1 and Q-2 sampling stations. However, for the purposes of this report, it is assumed that all of the phosphorus from the treatment plant and from the areal sources will eventually reach the lake, and both loads are reported on pages 16 and 17.

E. Mean Annual Non-point Nutrient Export by Sub-drainage Area:

Tributary	lbs P/mi^2/yr	lbs N/mi^2/yr
Lake Waukegan outlet	48	1,252
Hawkins Brook	148	2,179
Mead Brook	67	1,367
Page Brook	108	2,142
No Name (F-1)	54	1,200
Lake Kanasatka outlet	27	935
No Name (H-1)	60	3,120
Halfway Brook	44	2,728
Shannon Brook	49	2,057
Melvin River	59	2,345
Wingate Brook	62	2,042
Twenty Mile Brook	62	1,762
Mirror Lake outlet	48	2,290
Front Bay outlet	41	1,144
Rust Pond outlet	46	1,217
No Name (S-1)	67	1,425
Knights Pond outlet	75	2,012
Beaver Brook	55	1,879
Hurd Brook	69	1,763
Merry Meeting River	52	1,712
Watson Brook	61	1,197
Alton Brook	68	1,024
Poorfarm Brook	83	1,634
Gunstock River	84	2,388
Meadow Brook	114	3,371
Nineteen Mile Brook	59	1,786
Red Hill River	56	1,582

F. Yearly Loading Rates:

In the following table, the existing phosphorus loading rates are compared to those proposed by Vollenweider (1973). Essentially, his "dangerous" rate is the rate at which the receiving waters would become eutrophic or remain eutrophic; his "permissible" rate is that which would result in the receiving water remaining oligotrophic or becoming oligotrophic if morphometry permitted. A mesotrophic rate would be considered one between "dangerous" and "permissible".

	Total Phosphorus		Total Nitrogen	
Units	Total	Accumulated	Total	Accumulated
lbs/acre/yr	1.1	0.8	24.1	17.4
grams/m^2/yr	0.12	0.09	2.7	1.9

Vollenweider loading rates for phosphorus ($g/m^2/yr$) based on mean depth and mean hydraulic retention time of Lake Winnipesaukee:

"Dangerous" (eutrophic rate)	0.36
"Permissible" (oligotrophic rate)	0.18

G. Controllability of Nutrients:

During the sampling year, Lake Winnipesaukee received a total phosphorus load at a rate less than that proposed by Vollenweider as "permissible" (i.e., less than an oligotrophic rate). However, the economy of the Lake Winnipesaukee peripheral area is very strongly dependent upon the recreational attractions of the lake, and this necessitates the preservation of the quality of Lake Winnipesaukee.

The peripheral area of Lake Winnipesaukee has several population centers (Meredith, Center Harbor, Moultonboro, Tuftonboro, Wolfeboro, and Alton) with many summer cottages both near and more distant from the lake. The crowding of homes and the large influx of people have resulted in an increased potential problem. Some of these areas may not directly affect the lake at this time, but any plan to maintain or improve the water quality would be remiss if these areas were not included.

It is concluded that removal of phosphorus from all discharges to the lake would improve the water quality in the impacted bay areas of Lake Winnipesaukee where degradation of water quality have been substantiated by Survey data and other studies (Yeo, 1971; Maguire & Assoc., 1972). Phosphorus removal would also insure the high water quality of the main body of the lake.

It is noted that in New Hampshire's Merrimack River Basin Water Quality Management Plan (Anonymous, 1973), Phase II priorities are given to the preservation ("perpetual protection") of the high quality of Lake Winnipesaukee by means of a policy of "no discharge".

VI. LITERATURE REVIEWED

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VII. APPENDICES

APPENDIX A

TRIBUTARY FLOW DATA

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

TOTAL DRAINAGE AREA OF LAKE 363.00

TRIBUTARY	SUB-DRAINAGE AREA	NORMALIZED FLOWS JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
3303A1	363.00	726.00	799.00	1130.00	1870.00	1000.00	410.00	152.00	79.90	174.00	149.00	512.00	719.00	641.05
3303B1	13.00	26.00	28.00	40.30	66.80	35.90	14.70	5.50	2.90	6.20	5.30	18.30	25.70	22.89
3303C2	3.32	6.60	7.30	10.30	17.10	9.20	3.80	1.40	0.70	1.60	1.40	4.70	6.60	5.87
3303D1	0.34	0.70	0.70	1.10	1.70	0.90	0.40	0.10	0.10	0.20	0.10	0.50	0.70	0.60
3303E1	2.38	4.80	5.20	7.40	12.20	6.60	2.70	1.00	0.50	1.10	1.00	3.40	4.70	4.20
3303F1	1.26	2.60	2.80	3.90	6.50	3.50	1.40	0.50	0.30	0.60	0.50	1.80	2.50	2.22
3303G1	9.50	19.00	20.90	29.40	48.80	26.20	10.70	4.00	2.10	4.60	3.90	13.40	18.80	16.76
3303H1	0.54	1.10	1.20	1.70	2.80	1.50	0.60	0.20	0.10	0.30	0.20	0.80	1.10	0.96
3303J1	2.48	5.00	5.50	7.70	12.70	6.80	2.80	1.00	0.50	1.20	1.00	3.50	4.90	4.37
3303K1	7.04	14.10	15.50	21.80	36.20	19.40	8.00	3.00	1.50	3.40	2.90	9.90	13.90	12.42
3303L1	16.30	32.60	35.90	50.50	83.80	45.00	18.40	6.80	3.60	7.80	6.70	23.00	32.30	28.76
3303M1	2.38	4.80	5.20	7.40	12.20	6.60	2.70	1.00	0.50	1.10	1.00	3.40	4.70	4.20
3303N1	3.43	6.90	7.50	10.60	17.60	9.50	3.90	1.40	0.80	1.60	1.40	4.80	6.80	6.04
3303P1	3.32	6.60	7.30	10.30	17.10	9.20	3.80	1.40	0.70	1.60	1.40	4.70	6.60	5.87
3303Q2	38.70	77.40	85.10	120.00	199.00	107.00	43.70	16.30	8.50	18.60	15.90	54.60	76.60	68.31
3303R1	2.45	4.90	5.40	7.60	12.60	6.80	2.80	1.00	0.50	1.20	1.00	3.50	4.90	4.33
3303S1	1.17	2.30	2.60	3.60	6.00	3.20	1.30	0.50	0.30	0.60	0.50	1.70	2.30	2.07
3303T1	0.85	1.70	1.90	2.60	4.40	2.30	1.00	0.40	0.20	0.40	0.30	1.20	1.70	1.50
3303U1	7.47	15.90	17.50	24.70	41.00	22.00	9.00	3.30	1.80	3.80	3.30	11.20	15.80	14.06
3303V1	3.47	6.90	7.60	10.80	17.80	9.60	3.90	1.50	0.80	1.70	1.40	4.90	6.90	6.13
3303W1	28.80	57.60	63.40	89.30	148.00	79.50	32.50	12.10	6.30	13.80	11.80	40.60	57.00	50.80
3303X1	3.14	6.30	6.90	9.70	16.10	8.70	3.50	1.30	0.70	1.50	1.30	4.40	6.20	5.53
3303Y1	3.79	7.50	8.30	11.70	19.50	10.50	4.30	1.60	0.80	1.80	1.60	5.30	7.50	6.68
3303Z7	184.00	368.00	405.00	570.00	946.00	508.00	208.00	77.30	40.50	88.30	75.40	259.00	364.00	324.60
3303Z1	6.43	12.90	14.10	19.90	33.00	17.70	7.30	2.70	1.40	3.10	2.60	9.10	12.70	11.33
3303Z2	9.33	18.70	20.50	28.90	48.00	25.80	10.50	3.90	2.10	4.50	3.80	13.20	18.50	16.47
3303Z3	1.39	2.80	3.10	4.30	7.10	3.80	1.60	0.60	0.30	0.70	0.60	2.00	2.80	2.47
3303Z4	6.36	12.70	14.00	19.70	32.70	17.60	7.20	2.70	1.40	3.10	2.60	9.00	12.60	11.23

SUMMARY

TOTAL DRAINAGE AREA OF LAKE = 363.00
SUM OF SUB-DRAINAGE AREAS = 363.14

TOTAL FLOW IN = 7716.29
TOTAL FLOW OUT = 7720.90

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
3303A1	8	72	131.00	26	193.00				
	9	72	92.70	9	202.00				
	10	72	91.30	7	171.00				
	11	72	645.00	4	1158.00				
	12	72	913.00	3	643.00				
	1	73	1372.00	7	468.00				
	2	73	2053.00	3	3739.00				
	3	73	2000.00	3	356.00	18	9184.00		
	4	73	1657.00	8	1495.00	21	2170.00		
	5	73	1100.00	9	1240.00				
	6	73	1087.00	30	2500.00				
	7	73	766.00						
	8	73	79.90	5	83.10				

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
330381	8	72	4.80	25	6.90				
	9	72	3.30	9	7.20				
	10	72	3.20	7	8.10				
	11	72	23.10						
	12	72	32.60	3	23.00				
	1	73	49.10	7	15.80				
	2	73	72.00	3	134.00				
	3	73	71.30	3	12.80	18	129.00		
	4	73	59.20	8	53.60	21	77.40		
	5	73	39.50	9	44.30				
	6	73	39.00	30	615.00				
	7	73	27.70						
	8	73	2.90	5	13.50				
330302	8	72	1.10	25	1.80				
	9	72	0.90	9	1.80				
	10	72	0.90	7	1.60				
	11	72	5.90						
	12	72	8.40	3	5.90				
	1	73	12.50	7	4.30				
	2	73	18.80	4	34.20				
	3	73	18.20	3	3.30	18	44.00		
	4	73	15.20	8	13.70	21	19.40		
	4	73	15.20	21	19.40				
	5	73	10.10	9	11.30				
	6	73	10.10	30	157.00				
	7	73	7.10						
	8	73	0.70	5	3.45				
330301	8	72	0.20	25	0.20				
	9	72	0.10	9	0.20				
	10	72	0.10	7	0.20				
	11	72	0.60						
	12	72	0.90	3	0.60				
	1	73	1.30	7	0.40				
	2	73	1.80	3	3.80				
	3	73	1.90	3	0.30	18	5.60		
	4	73	1.50	8	1.40	21	2.00		
	5	73	1.00	9	1.20				
	6	73	1.10	30	15.10				
	7	73	0.50						
	8	73	0.19	5	0.35				

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
3303F1	A	72	0.80	28	1.30				
	9	72	0.40	9	1.30				
	10	72	0.60	7	1.10				
	11	72	4.30						
	12	72	6.00	3	6.20				
	1	73	9.10	7	3.10				
	2	73	13.40	1	24.50				
	3	73	13.10	3	2.30	18	40.20		
	4	73	10.40	8	9.40	21	14.20		
	5	73	7.30	9	8.10				
	6	73	7.20	30	113.00				
	7	73	5.00						
	8	73	0.50	5	2.64				
3303F1	A	72	0.50	26	0.70				
	9	72	0.30	9	0.70				
	10	72	0.30	7	0.60				
	11	72	2.30						
	12	72	3.20	3	2.20				
	1	73	6.70	7	1.60				
	2	73	7.20	3	13.00				
	3	73	6.90	3	1.20	18	31.90		
	4	73	5.40	8	5.20	21	7.50		
	5	73	3.80	9	4.30				
	6	73	3.70	30	54.60				
	7	73	2.50						
	8	73	0.30	5	1.31				
3303G1	A	72	3.40	28	5.10				
	9	72	2.50	9	5.30				
	10	72	2.40	7	4.50				
	11	72	14.40	4	30.30				
	12	72	23.90	3	14.40				
	1	73	35.40	7	12.30				
	2	73	53.70	3	97.90				
	3	73	37.00	3	9.30	18	240.00		
	4	73	43.20	8	39.10	21	56.70		
	5	73	28.80	9	32.40				
	6	73	28.40	30	449.00				
	7	73	20.20						
	8	73	2.10	5	9.84				
3303H1	A	72	0.20	28	0.30				
	9	72	0.20	9	0.30				
	10	72	0.10	7	0.30				
	11	72	1.30	4	1.70				
	12	72	1.40	3	1.00				
	1	73	2.10	7	0.70				
	2	73	3.10	3	5.60				
	3	73	3.00	3	0.50	18	13.70		
	4	73	2.50	8	2.20	21	3.20		
	5	73	1.60	9	1.80				
	6	73	1.60	30	25.50				
	7	73	1.00						
	8	73	0.10	5	0.56				

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
3303J1	8	72	0.80	24	1.30				
	9	72	0.60	9	1.40				
	10	72	0.60	7	1.20				
	11	72	4.40	4	7.90				
	12	72	6.20	3	6.40				
	1	73	9.50	7	3.20				
	2	73	14.10	1	25.50				
	3	73	13.60	3	2.40	18	62.70		
	4	73	11.30	8	10.20	21	14.80		
	5	73	7.50	9	9.50				
	6	73	7.40	10	117.00				
	7	73	5.00						
	8	73	0.50	5	2.50				
3303K1	8	72	2.50	26	3.80				
	9	72	1.80	9	3.90				
	10	72	1.40	7	3.30				
	11	72	12.50	4	22.50				
	12	72	17.70	1	12.50				
	1	73	26.60	7	9.10				
	2	73	39.40	1	72.50				
	3	73	38.80	3	6.90	18	178.00		
	4	73	32.10	8	24.00	21	42.00		
	5	73	21.30	9	24.00				
	6	73	21.70	10	333.00				
	7	73	15.10						
	8	73	1.50	5	7.32				
3303L1	8	72	5.90	26	8.70				
	9	72	6.20	9	9.10				
	10	72	6.10	7	7.70				
	11	72	29.00	4	52.00				
	12	72	41.00	3	65.50				
	1	73	51.00	11	28.50				
	2	73	82.30	1	164.00				
	3	73	89.60	3	16.00	17	155.00		
	4	73	74.70	7	72.00				
	5	73	48.50	5	67.50				
	6	73	48.00	4	44.00				
	7	73	34.40	1	88.00				
	8	73	3.60						
3303M1	8	72	0.80	26	1.30				
	9	72	0.60	9	1.30				
	10	72	0.50						
	11	72	4.30	4	7.60				
	12	72	6.00	4	9.60				
	1	73	9.10	13	3.00				
	2	73	13.40	3	24.50				
	3	73	13.10	3	2.30	12	9.00		
	4	73	10.80	7	10.50	21	14.20		
	5	73	7.30	5	9.90				
	6	73	7.20	9	9.40				
	7	73	5.00	1	124.00				
	8	73	0.50						

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
330301	8	72	1.30	26	1.80				
	9	72	0.90	9	1.90				
	10	72	0.90	7	1.60				
	11	72	6.00	4	10.90				
	12	72	8.60	9	13.80				
	1	73	13.00	13	4.30				
	2	73	19.30	3	35.30				
	3	73	14.80	3	3.40	17	32.70		
	4	73	15.60	7	15.20	21	20.50		
	5	73	10.40	5	14.20				
	6	73	10.40	9	9.30				
	7	73	7.10	1	170.00				
	8	73	0.80						
330301	8	72	1.10	26	1.40				
	9	72	0.90	9	1.80				
	10	72	0.90	7	1.60				
	11	72	5.90	4	10.60				
	12	72	8.40	9	13.30				
	1	73	12.50	13	4.20				
	2	73	18.90	3	34.20				
	3	73	14.20	3	3.30	17	31.60		
	4	73	15.20	7	14.70				
	5	73	10.10						
	6	73	10.10	9	9.00				
	7	73	7.10						
	7	73	7.10	1	173.00				
	8	73	0.70						
330302	8	72	13.40	26	20.60				
	9	72	9.40	9	21.60				
	10	72	9.70	7	18.30				
	11	72	58.40						
	12	72	97.30	9	156.00				
	1	73	146.00	7	49.90				
	2	73	219.00	3	399.00				
	3	73	212.00	3	38.00	17	368.00		
	4	73	174.00	7	171.00	21	231.00		
	5	73	118.00	5	140.00				
	6	73	116.00	9	104.00				
	7	73	42.20	1	2010.00				
	8	73	4.50						

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
330321	8	72	0.80	26	1.30				
	9	72	0.30	9	1.40				
	10	72	0.60	7	1.20				
	11	72	4.40						
	12	72	6.20	9	9.80				
	1	73	0.30	13	3.10				
	2	73	13.90	3	25.20				
	3	73	13.50	3	2.40	17	23.30		
	4	73	11.20	7	10.80	21	14.60		
	5	73	7.50	5	10.10				
	6	73	7.40	9	6.60				
	7	73	5.00						
	7	73	5.00	1	127.00				
	8	73	0.50						
330351	8	72	0.40	26	0.60				
	9	72	0.30	9	0.70				
	10	72	0.60	7	0.60				
	11	72	2.10						
	12	72	2.90	9	4.70				
	1	73	4.30	13	1.50				
	2	73	4.70	3	12.10				
	3	73	6.40	3	1.10	17	11.10		
	4	73	5.30	7	5.20	21	7.00		
	5	73	3.50						
	6	73	3.40	9	3.20				
	7	73	2.50						
	7	73	2.50	1	60.80				
	8	73	0.30						
330371	8	72	0.30	26	0.50				
	9	72	0.20	9	0.50				
	10	72	0.20	7	0.40				
	11	72	1.50						
	12	72	2.20	9	3.40				
	1	73	3.20	13	1.10				
	2	73	4.40	3	8.80				
	3	73	4.60	3	0.80	17	8.10		
	4	73	3.90	7	3.80	21	5.10		
	5	73	2.50	5	3.50				
	6	73	2.60	9	2.30				
	7	73	2.00						
	7	73	2.00	7	44.20				
	8	73	0.20						

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
3303U1	8	72	3.00	26	4.20				
	9	72	2.00	9	4.40				
	10	72	2.00	7	3.80				
	11	72	14.10						
	12	72	20.10	9	32.00				
	1	73	30.10	13	10.00				
	2	73	45.00	3	82.10				
	3	73	43.70	3	7.80	17	75.90		
	4	73	36.30	7	35.20	21	47.60		
	5	73	24.20	5	33.00				
	6	73	23.80	9	21.50				
	7	73	16.60						
	7	73	16.60	1	414.00				
	8	73	1.80						
3303V1	8	72	1.30	26	1.90				
	9	72	0.90	9	1.90				
	10	72	0.90	7	1.60				
	11	72	6.20	4	11.10				
	12	72	8.80	9	13.90				
	1	73	13.00	13	4.40				
	2	73	19.50	3	35.70				
	3	73	19.10	17	33.00				
	4	73	15.80	7	15.30	21	20.70		
	5	73	10.60	6	12.20				
	6	73	10.30	9	9.40				
	7	73	7.50	1	180.00				
3303W1	8	72	10.30	26	15.40				
	9	72	7.40	9	16.00				
	10	72	7.20	7	13.60				
	11	72	51.20	4	91.90				
	12	72	72.40	9	116.00				
	1	73	109.00	13	36.30				
	2	73	163.00	3	297.00				
	3	73	158.00	3	28.30	17	274.00		
	4	73	131.00	7	127.00	21	172.00		
	5	73	87.40	6	101.00				
	6	73	86.10	9	77.80				
	7	73	61.00	1	1500.00				
	8	73	6.30						
3303X1	8	72	1.10	26	1.70				
	9	72	0.80	9	1.70				
	10	72	0.80	7	1.50				
	11	72	5.50						
	12	72	7.90	9	12.60				
	1	73	11.90	13	4.00				
	2	73	17.70	3	32.30				
	3	73	17.20	3	3.10	17	29.90		
	4	73	14.30	7	13.90	21	18.70		
	5	73	9.60	6	11.00				
	6	73	9.30	9	8.50				
	7	73	6.50	1	163.00				
	8	73	0.70						

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
330371	8	72	1.30	26	2.00				
	9	72	1.00	10	2.20				
	10	72	1.00	7	1.80				
	11	72	6.70	4	12.10				
	12	72	9.50	9	15.20				
	1	73	14.40	14	4.60				
	2	73	21.30	3	39.00				
	3	73	20.70	3	3.70	17	36.10		
	4	73	17.30	7	16.80	21	22.60		
	5	73	11.60	9	12.90				
	6	73	11.40	11	8.70				
	7	73	8.10	1	197.00				
	8	73	0.80						
	8	73	0.80						
330377	8	72	66.40						
	9	72	47.10						
	10	72	46.20						
	11	72	326.00						
	12	72	462.00						
	1	73	646.00						
	2	73	1041.00						
	3	73	1069.00						
	4	73	838.00						
	5	73	558.00						
	6	73	551.00						
	7	73	349.00						
	8	73	40.50						
330371	8	72	2.30	26	3.40				
	9	72	1.70	10	3.70				
	10	72	1.60	7	3.00				
	11	72	11.50	4	20.50				
	12	72	16.10	9	25.80				
	1	73	24.40	14	7.80				
	2	73	36.20	3	66.20				
	3	73	35.20	3	6.30	17	61.20		
	4	73	29.20	7	28.40	21	38.40		
	5	73	19.50	9	21.90				
	6	73	19.30	11	14.80				
	7	73	13.60	1	334.00				
	8	73	1.40						

TRIBUTARY FLOW INFORMATION FOR NEW HAMPSHIRE 7/9/74

LAKE CODE 3303 LAKE WINNIPESAUKEE

MEAN MONTHLY FLOWS AND DAILY FLOWS

TRIBUTARY	MONTH	YEAR	MEAN FLOW	DAY	FLOW	DAY	FLOW	DAY	FLOW
330321	8	72	3.40	26	5.80				
	9	72	2.40	10	5.30				
	10	72	2.30	7	4.40				
	11	72	16.60	4	29.80				
	12	72	23.50	9	37.50				
	1	73	35.30	14	11.40				
	2	73	52.70	3	96.10				
	3	73	51.20	3	9.20	17	88.80		
	4	73	42.50	7	41.20	21	55.70		
	5	73	28.40	9	31.80				
	6	73	27.80	11	21.50				
	7	73	19.70	1	485.00				
	8	73	2.10						
330331	8	72	0.50	26	0.70				
	9	72	0.40	10	0.80				
	10	72	0.40	7	0.70				
	11	72	2.50	4	4.40				
	12	72	3.60	9	5.60				
	1	73	5.30	14	1.70				
	2	73	8.00	3	14.30				
	3	73	7.60	3	1.40	17	13.20		
	4	73	6.30	7	6.10	21	8.30		
	5	73	4.70	9	4.20				
	6	73	4.20	11	3.20				
	7	73	3.00	1	72.30				
	8	73	0.30						
330341	8	72	2.30	26	3.40				
	9	72	1.70	9	3.50				
	10	72	1.60	7	3.00				
	11	72	11.30	4	20.30				
	12	72	16.00	9	25.60				
	1	73	24.00	13	8.00				
	2	73	36.00	3	65.50				
	3	73	34.90	3	6.20	17	60.50		
	4	73	29.00	7	28.10	21	38.00		
	5	73	19.30	5	26.30				
	6	73	19.10	9	17.20				
	7	73	13.60	1	331.00				
	8	73	1.40						

APPENDIX B

PHYSICAL AND CHEMICAL DATA

K - Value is less than indicated
J - Value known to be in error

STORET RETRIEVAL DATE 74/07/02

330301
43 32 48.0 071 28 06.0
LAKE WINNIPESAUKEE
33 NEW HAMPSHIRE

11EPALES 2111202
3 0025 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00630 NO2&NO3 N-TOTAL MG/L	00610 NH3-N TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P
72/06/02	12 40	0000	16.2	10.0	132	60	7.20	10K	0.020	0.010	0.011	0.003
	12 40	0010	15.7	10.2		60	6.90	10K	0.020	0.010	0.011	0.005
	12 40	0020	13.9	11.3		60	7.00	10K	0.030	0.020	0.007	0.005
72/08/06	15 25	0000			240	55	6.20	10K	0.030	0.040	0.007	0.003
	15 25	0004	23.8	10.4		55	6.40	10K	0.040	0.040	0.006	0.004
	15 25	0015	23.8	7.8		55	6.40	10K	0.020	0.040	0.006	0.003
	15 25	0022	23.6	8.2		55	6.40	10K	0.040	0.040	0.006	0.003
	15 25	0032	23.4	8.0		55	6.40	10K	0.030	0.030	0.007	0.007
	15 25	0042	22.9	7.4		55	6.40	10K	0.020	0.040	0.007	0.002
	15 25	0052	19.2	13.0		50K	6.50	10K	0.030	0.030	0.006	0.005
72/10/08	08 00	0000			192	55	7.20	10K	0.010	0.030	0.007	0.003
	08 00	0004	16.6	9.2		55	7.25	10K	0.020	0.040	0.007	0.004
	08 00	0015	16.6	9.0		55	7.25	10K	0.020	0.040	0.007	0.004
	08 00	0025	16.6	8.9		57	7.20	10K	0.020	0.040	0.008	0.005
	08 00	0035	16.6	8.8		57	7.15	10K	0.020	0.040	0.011	0.005
	08 00	0044	16.6	8.8		57	7.25	10K	0.020	0.030	0.024	0.006

DATE FROM TO	TIME OF DAY	DEPTH FEET	32217 CHLRPHYL A UG/L
72/06/02	12 40	0000	2.7J
72/08/06	15 25	0000	1.3J
72/10/08	08 00	0000	1.9J

36<

STORET RETRIEVAL DATE 74/07/02

330302
43 33 42.0 071 27 36.0
LAKE WINNIPESAUKEE
33 NEW HAMPSHIRE

11FPALES 2111202
3 0020 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00630 NO2&NO3 N-TOTAL MG/L	00610 NH3-N TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P
72/06/02	13	20 0000	17.1		168	60	6.90	10K	0.030	0.010K	0.003	0.002
	13	20 0009	16.3	10.2		60	7.00	10K	0.020	0.010K	0.008	0.003
	13	20 0018	9.7	12.8		60	6.90	10K	0.020	0.010	0.008	0.004
72/08/06	15	00 0000			252	50K	6.60	10K	0.020	0.040	0.008	0.004
	15	00 0004	22.9	8.8		50K	6.60	10K	0.020	0.030	0.005	0.003
	15	00 0015	22.6	8.8		50K	6.50	10K	0.030	0.040	0.006	0.004
	15	00 0019	22.2	8.6		50K	6.50	10K	0.040	0.040	0.007	0.005
72/10/08	09	00 0000			228	57	7.15	10K	0.020	0.030	0.006	0.004
	09	00 0004	16.2	8.6		57	7.25	10K	0.020	0.040	0.007	0.004
	09	00 0015	16.1	9.3		57	7.35	10K	0.020	0.030	0.009	0.004

DATE FROM TO	TIME OF DAY	DEPTH FEET	32217 CHLRPHYL A UG/L
72/06/02	13	20 0000	2.8J
72/08/06	15	00 0000	0.9J
72/10/08	09	00 0000	1.9J

37< 32<

STORET RETRIEVAL DATE 74/07/02

330303
43 37 06.0 071 27 12.0
LAKE WINNIPESAUKEE
33 NEW HAMPSHIRE

11EPALES 2111202
3 0030 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00630 NO2&NO3 N-TOTAL MG/L	00610 NH3-N TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P
72/06/02	13 50	0000	16.0	10.5	216K	50	6.90	10K	0.020	0.010	0.006	0.002
	13 50	0010	15.8	10.4		50	6.90	10K	0.020	0.010	0.006	0.003
	13 50	0023	12.4	12.4		40	6.90	10K	0.020	0.010K	0.002K	0.002K
72/08/06	11 50	0000			312	50K	6.60	10K	0.050	0.050	0.010	0.007
	11 50	0004	22.1	8.9		50K	6.50	10K	0.040	0.060	0.006	0.003
	11 50	0015	21.7	9.0		50K	6.50	10K	0.040	0.040	0.009	0.005
	11 50	0024	19.0	9.8		50K	6.40	10K	0.030	0.060	0.006	0.005
72/10/08	10 15	0000			252	57	7.25	10K	0.010	0.030	0.006	0.005
	10 15	0004	16.0	9.0		59	7.40	10K	0.010	0.020	0.006	0.003
	10 15	0015	16.0	9.0		55	7.10	10K	0.010	0.020	0.006	0.003
	10 15	0025	15.9	9.0		55	7.15	10K	0.010	0.030	0.007	0.003

DATE FROM TO	TIME OF DAY	DEPTH FEET	32217 CHLRPHYL A UG/L
72/06/02	13 50	0000	2.1J
72/08/06	11 50	0000	1.0J
72/10/08	10 15	0000	2.1J

STORET RETRIEVAL DATE 74/07/02

330304
43 35 18.0 071 23 24.6
LAKE WINNIPESAUKEE
33 NEW HAMPSHIRE

11EPALES 2111202
3 0020 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00630 NO2&NO3 N-TOTAL MG/L	00610 NH3-N TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P
72/06/02	14 15	0000	15.1	10.6	216K	40	7.00	10K	0.020	0.010K	0.004	0.004
	14 15	0015	9.7	12.4		40	6.90	10K	0.020	0.010K	0.002	0.002
72/08/06	12 20	0000			240	50K	6.60	10K	0.040	0.050	0.005	0.002
	12 20	0004	21.7	8.4		50K	6.70	10K	0.030	0.050	0.003	0.002
	12 20	0015	21.5	11.2		50K	6.60	10K	0.040	0.050	0.011	0.006
72/10/08	09 20	0000			216	55	7.20	10K	0.020	0.030	0.005	0.003
	09 20	0004	16.1	8.7		55	7.20	10K	0.020	0.030	0.005	0.002
	09 20	0014	16.1	8.7		55	7.25	10K	0.020	0.030	0.005	0.003

DATE FROM TO	TIME OF DAY	DEPTH FEET	32217 CHLRPHYL A UG/L
72/06/02	14 15	0000	3.5J
72/08/06	12 20	0000	0.7J
72/10/08	09 20	0000	1.7J

STORET RETRIEVAL DATE 74/07/02

330305
43 36 30.0 071 21 16.0
LAKE WINNIPESAUKEE
33 NEW HAMPSHIRE

11EPALES 2111202
3 0049 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00630 NO2&NO3 N-TOTAL MG/L	00610 NH3-N TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P
72/06/02	14 35	0000	13.5	11.0	216	40	7.50	10K	0.020	0.040	0.003	0.002
	14 35	0010	12.1	12.2		40	7.00	10K	0.030	0.010	0.002	0.002
	14 35	0050	5.2	12.2		40	6.80	10K	0.040	0.020	0.003	0.002
72/08/06	14 30	0000			252	50K	6.60	10K	0.030	0.050	0.010	0.007
	14 30	0004	21.8			50K	6.60	10K	0.020	0.030	0.005	0.004
	14 30	0015	21.5	9.0		50K	6.60	10K	0.040	0.040	0.005	0.003
	14 30	0025	21.2	9.0		50K	6.50	10	0.030	0.050	0.005	0.004
	14 30	0035	17.2	9.6		50K	6.50	10K	0.040	0.050	0.005	0.003
	14 30	0045	13.5			50K	6.50	10K	0.040	0.050	0.005	0.003
72/10/08	13 00	0000			292	52	7.20	10K	0.020	0.040	0.006	0.004
	13 00	0004	16.5	9.0		60	7.20	10K	0.020	0.040	0.004	0.002
	13 00	0015	16.3	9.0		60	7.20	10K	0.020	0.040	0.005	0.004
	13 00	0022	16.3	9.2		60	7.20	10K	0.020	0.040	0.004	0.003
	13 00	0031	16.3	9.0		55	7.30	10K	0.020	0.050	0.005	0.006
	13 00	0040	16.2	8.9		57	7.25	10K	0.020	0.040	0.005	0.003
	13 00	0050	16.1	8.8		60	7.30	10K	0.020	0.030	0.015	0.003

DATE FROM TO	TIME OF DAY	DEPTH FEET	32217 CHLRPHYL A UG/L
72/06/02	14 35	0000	3.0 J
72/08/06	14 30	0000	0.8 J
72/10/08	13 00	0000	1.8 J

STORET RETRIEVAL DATE 74/07/02

330306
43 34 48.0 071 12 54.0
LAKE WINNIPESAUKEE
33 NEW HAMPSHIRE

11EPALES
3

2111202
0035 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00630 NO2&NO3 N-TOTAL MG/L	00610 NH3-N TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P
72/06/02	16	20 0000	17.6	10.1	162	40	6.90	10K	0.020	0.040	0.007	0.004
	16	20 0010	15.0	12.2		40	6.90	10K	0.030	0.050	0.006	0.002
	16	20 0033	6.4	12.9		40	6.75	10K	0.030	0.020	0.005	0.002
72/08/06	09	35 0000			220	50K	6.50	10K	0.040	0.060	0.011	0.008
	09	35 0004	23.0	8.6		50K	6.50	10K	0.020	0.050	0.004	0.004
	09	35 0015	22.6	8.4		50K	6.50	10K	0.030	0.040	0.010	0.005
	09	35 0022	21.7	9.0		50K	6.50	10K	0.030	0.040	0.005	0.004
	09	35 0030	21.0			50K	6.40	10K	0.030	0.040	0.008	0.005
	09	35 0038	17.5	9.4		50K	6.40	10K	0.030	0.040	0.011	0.005
72/10/08	11	35 0000			300	55	7.00	10K	0.020	0.030	0.008	0.004
	11	35 0004	16.6	8.6		52	6.85	10K	0.020	0.030	0.008	0.005
	11	35 0015	16.6	8.6		55	7.05	10K	0.020	0.040	0.007	0.003
	11	35 0025	16.5	8.5		55	7.00	10K	0.020	0.030	0.007	0.003
	11	35 0035	16.5	8.5		55	7.10	10K	0.010	0.030	0.008	0.003

DATE FROM TO	TIME OF DAY	DEPTH FEET	32217 CHLRPHYL A UG/L
72/06/02	16	20 0000	3.2J
72/08/06	09	35 0000	1.3J
72/10/08	11	35 0000	2.1J

STORET RETRIEVAL DATE 74/07/02

330307
43 42 18.0 071 27 24.0
LAKE WINNIPESAUKEE
33 NEW HAMPSHIRE

1IFPALES 2111202
3 0022 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00630 NO2&NO3 N-TOTAL MG/L	00610 NH3-N TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P
72/06/02	18 30	0000	19.5		156	50	6.90	10K	0.020	0.020	0.004	0.002
	18 30	0010	16.6	11.3		50	6.90	10K	0.030	0.030	0.005	0.003
	18 30	0020	9.8	12.8		60	6.80	10K	0.030	0.050	0.012	0.006
72/08/06	14 00	0000			182	50K	6.50	10K	0.040	0.060	0.009	0.007
	14 00	0004	22.5	8.8		50K	6.50	10K	0.030	0.020	0.002K	0.002
	14 00	0015	21.6	10.0		50K	6.50	10K	0.030	0.050	0.006	0.003
	14 00	0020	18.4	10.1		50K	6.50	10K	0.030	0.050	0.007	0.005
	14 00	0026	16.4	9.8		50K	6.40	10K	0.030	0.050	0.008	0.004
72/10/08	10 40	0000			264	58	6.75	10K	0.020	0.030	0.007	0.004
	10 40	0004	16.3	8.8		50	6.90	10K	0.010	0.020	0.008	0.004
	10 40	0015	16.3	8.6		55	6.85	10K	0.010	0.030	0.008	0.004
	10 40	0022	16.2	8.5		55	6.85	10K	0.020	0.030	0.007	0.004
	10 40	0029	14.2	8.3		55	6.85	10K	0.010	0.030	0.007	0.004

DATE FROM TO	TIME OF DAY	DEPTH FEET	32217 CHLRPHYL A UG/L
72/06/02	18 30	0000	2.2J
72/08/06	14 00	0000	0.7J
72/10/08	10 40	0000	2.1J

STORET RETRIEVAL DATE 74/07/02

330308
43 41 06.0 071 18 30.0
LAKE WINNIPESAUKEE
33 NEW HAMPSHIRE

11EPALES 2111202
3 0030 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00010 WATER TEMP CENT	00300 DO MG/L	00077 TRANSP SECCHI INCHES	00094 CNDUCTVY FIELD MICROMHO	00400 PH SU	00410 T ALK CACO3 MG/L	00630 NO2&NO3 N-TOTAL MG/L	00610 NH3-N TOTAL MG/L	00665 PHOS-TOT MG/L P	00666 PHOS-DIS MG/L P
72/06/02	19 00	0000	18.0	9.8	48	40	6.40	10K	0.070	0.040	0.005	0.004
72/08/06	10 15	0000			220	50K	6.60	10K	0.040	0.070	0.009	0.006
	10 15	0004	22.9	8.2		50K	6.50	10K	0.040	0.060	0.006	0.005
	10 15	0015	22.5	8.2		50K	6.30	10K	0.060	0.080	0.008	0.005
	10 15	0023	17.7	7.6		50K	6.30	10K	0.060	0.070	0.007	0.004
	10 15	0028	14.5	7.0		50K	6.20	10K	0.090	0.060	0.007	0.004
72/10/08	11 10	0000			216	55	6.55	10K	0.020	0.030	0.005	0.002
	11 10	0004	16.3	9.0		55	6.65	10K	0.020	0.040	0.005	0.003
	11 10	0015	16.3	8.9		55	6.70	10K	0.020	0.050	0.006	0.003
	11 10	0023	16.3	8.8		55	6.70	10K	0.020	0.040	0.005	0.003

DATE FROM TO	TIME OF DAY	DEPTH FEET	32217 CHLRPHYL A UG/L
72/06/02	19 00	0000	5.6J
72/08/06	10 15	0000	2.0J
72/10/08	11 10	0000	1.9J

APPENDIX C

TRIBUTARY and WASTEWATER TREATMENT PLANT DATA

K - Value is less than indicated
J - Value known to be in error

STORET RETRIEVAL DATE 74/07/

3303A1 LS330341
43 36 30.0 071 27 30.0
UNNAMED OUTLET TO PAUGUS BAY
33 15 WINNIPESAUKEE
O/LAKE WINNIPESAUKEE
US BRDG 3
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	10 45		0.010K	0.210	0.015	0.005K	0.006
72/09/09	10 45		0.020	0.200	0.034	0.005K	0.006
72/11/04	11 30		0.018	0.190	0.075	0.005K	0.008
72/12/03	09 45		0.010K	0.350	0.029	0.006	0.014
73/01/07	10 30		0.024	0.280	0.035	0.005K	0.005K
73/02/03	10 00		0.024	0.200	0.031	0.005K	0.005K
73/03/03	09 40		0.026	0.160	0.026	0.005K	0.005K
73/03/18	08 50		0.026	0.390	0.038	0.005K	0.015
73/04/08	09 05		0.010K	0.200	0.011	0.005K	0.005K
73/04/21	08 05		0.032	0.230	0.009	0.005K	0.005K
73/05/09	07 10		0.010K	0.190	0.008	0.007	0.030
73/06/30	09 40		0.013	0.200	0.039	0.008	0.010
73/08/05	08 35		0.010K	0.100K	0.015	0.005K	0.005K

STORET RETRIEVAL DATE 74/07/02

330381 LS330381
43 39 30.0 071 30 00.0
LK WAUKEWAN-MEREDITH BAY CONNECT
33 15 HOLDERNESS
T/LAKE WINNIPESAUKEE
MAIN ST CROSSING IN MEREDITH
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	11 15		0.078	0.500	0.126	0.016	0.039
72/09/09	11 00		0.025	0.350	0.061	0.005K	0.006
72/10/07	11 30		0.150	0.800	0.200	0.038	0.048
72/12/03	10 00		0.013	0.190	0.023	0.005K	0.015
73/01/07	10 45		0.034	0.750	0.078	0.006	0.006
73/02/03	10 15		0.048	0.360	0.066	0.005K	0.005K
73/03/03	09 50		0.022	0.200	0.019	0.005K	0.005K
73/03/18	09 05		0.066	0.145	0.023	0.005K	0.010
73/04/08	09 15		0.023	0.175	0.011	0.005K	0.005K
73/04/21	08 20		0.016	0.260	0.014	0.005K	0.005K
73/05/09	07 18		0.015	0.270	0.018	0.008	0.025
73/06/30	10 15		0.011	0.200	0.032	0.005K	0.010
73/08/05	08 45		0.140	0.110	0.008	0.005K	0.005K

STORET RETRIEVAL DATE 74/07/02

3303C1 LS3303C1
43 40 00.0 071 30 30.0
HAWKINS BROOK
33 15 HOLDERNESS
T/LAKE WINNIPESAUKEE
BRIDGE ABOVE MEREDITH STP
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	11 45		0.374	0.400	0.073	0.005K	0.019
72/09/09	11 15		0.530	0.350	0.110	0.005K	0.011
72/11/04	12 02		0.120	0.440	0.083	0.005K	0.018
72/12/03	09 52		0.190	0.380	0.034	0.005K	0.014
73/01/07	10 50		0.230	0.390	0.038	0.007	0.020
73/02/03	10 25		0.220	0.480	0.058	0.006	
73/03/03	09 15		0.320	0.300	0.080	0.005K	0.015
73/03/18	08 30		0.147	0.310	0.034	0.007	0.065
73/04/08	08 50		0.110	0.220	0.013	0.005K	0.065
73/04/21	07 50		0.189	0.330	0.021	0.005K	0.025
73/05/09	07 00		0.201	0.310	0.047	0.009	0.040
73/06/30	09 20		0.240	0.600	0.050	0.005	0.070
73/08/05	08 15		0.330	0.370	0.005K	0.005K	0.015

STORET RETRIEVAL DATE 74/07/02

3303C2 LS3303C2
43 39 30.0 071 30 00.0
HAWKINS BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 25 BRDG BELOW MEREDITH STP
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/09/26	12 00		0.091	2.550	1.300	0.600	0.830
72/09/09	11 20		0.038	0.500	0.110	0.046	0.072
72/10/07	11 35		0.024	0.550	0.170	0.052	0.115
72/11/04	12 20		0.028	0.400	0.068	0.009	0.050
72/12/03	10 00		0.050	0.330	0.130	0.013	0.028
73/01/07	11 00		0.360	1.050	0.440	0.132	0.195
73/02/03	10 35		0.290	1.050	0.220	0.047	0.110
73/03/03	10 55		0.520	1.900	1.200	0.340	0.470
73/03/18	09 20		0.190	0.340	0.068	0.025	0.080
73/04/08	09 20		0.170	0.500	0.150	0.056	0.080
73/04/21	08 25		0.200	1.200	0.480	0.205	0.315
73/05/09	07 20		0.198	1.320	0.720	0.270	0.450
73/06/30	10 20		0.056	0.500	0.168	0.063	0.110
73/08/05	08 50		0.038	0.310	0.096	0.058	0.070

STORET RETRIEVAL DATE 74/07/02

3303C1 LS3303C1
43 40 00.0 071 30 30.0
HAWKINS BROOK
33 15 HOLDERNESS
T/LAKE WINNIPESAUKEE
BRIDGE ABOVE MEREDITH STP
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	11 45		0.374	0.400	0.073	0.005K	0.019
72/09/09	11 15		0.530	0.350	0.110	0.005K	0.011
72/11/04	12 02		0.120	0.440	0.083	0.005K	0.018
72/12/03	09 52		0.190	0.380	0.034	0.005K	0.014
73/01/07	10 50		0.230	0.390	0.038	0.007	0.020
73/02/03	10 25		0.220	0.480	0.058	0.006	
73/03/03	09 15		0.320	0.300	0.080	0.005K	0.015
73/03/18	08 30		0.147	0.310	0.034	0.007	0.065
73/04/08	08 50		0.110	0.220	0.013	0.005K	0.065
73/04/21	07 50		0.189	0.330	0.021	0.005K	0.025
73/05/09	07 00		0.201	0.310	0.047	0.009	0.040
73/06/30	09 20		0.240	0.600	0.050	0.005	0.070
73/08/05	08 15		0.330	0.370	0.005K	0.005K	0.015

STORET RETRIEVAL DATE 74/07/02

3303C2 LS3303C2
43 39 30.0 071 30 00.0
HAWKINS BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 25 BRDG BELOW MEREDITH STP
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	12 00		0.091	2.550	1.300	0.600	0.830
72/09/09	11 20		0.038	0.500	0.110	0.046	0.072
72/10/07	11 35		0.024	0.550	0.170	0.052	0.115
72/11/04	12 20		0.028	0.400	0.068	0.009	0.050
72/12/03	10 00		0.050	0.330	0.130	0.013	0.028
73/01/07	11 00		0.360	1.050	0.440	0.132	0.195
73/02/03	10 35		0.290	1.050	0.220	0.047	0.110
73/03/03	10 55		0.520	1.900	1.200	0.340	0.470
73/03/18	09 20		0.190	0.340	0.068	0.025	0.080
73/04/08	09 20		0.170	0.500	0.150	0.056	0.080
73/04/21	08 25		0.200	1.200	0.480	0.205	0.315
73/05/09	07 20		0.198	1.320	0.720	0.270	0.450
73/06/30	10 20		0.056	0.500	0.168	0.063	0.110
73/08/05	08 50		0.038	0.310	0.096	0.058	0.070

STORET RETRIEVAL DATE 74/07/02

3303D1 LS3303D1
43 38 30.0 071 27 00.0
MEAD BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
CROSSING 0.1 MI FROM LAKE
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	12 30		0.059	0.390	0.025	0.011	0.035
72/09/09	11 45		0.119	0.300	0.046	0.006	0.013
72/11/04	12 50		0.011	0.200	0.042	0.005K	0.014
72/12/03	10 15		0.013	0.630	0.013	0.005K	0.009
73/01/07	11 15		0.040	0.270	0.028	0.012	0.012
73/02/03	10 50		0.031	0.400	0.033	0.008	0.027
73/03/03	10 10		0.082	0.120	0.053	0.011	0.011
73/03/18	09 30		0.024	0.400	0.042	0.009	0.020
73/04/08	09 30		0.012	0.100K	0.008	0.005K	0.005K
73/04/21	08 30		0.023	0.100K	0.012	0.005K	0.015
73/05/09	07 30		0.021	0.500	0.025	0.027	
73/06/30	10 30		0.044	0.360	0.028	0.014	0.020
73/08/05	10 00		0.120	0.160	0.007	0.012	0.020

STORET RETRIEVAL DATE 74/07/02

3303E1 LS3303E1
43 39 00.0 071 26 30.0
PAGE BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
CROSSING 0.2 MI FROM FISH COVE
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	12 45		0.082	0.725	0.011	0.011	0.036
72/09/09	12 00		0.067	1.050	0.064	0.012	0.030
72/11/04	13 00		0.046	0.730	0.075	0.008	0.033
73/01/07	11 30		0.027	0.560	0.110	0.006	0.015
73/02/03	11 10		0.035	0.580	0.115	0.005K	0.015
73/03/03	10 30		0.033	0.460	0.115	0.007	0.015
73/03/18	09 50		0.042	0.330	0.056	0.005K	0.020
73/04/08	09 38		0.081	0.260	0.033	0.005K	0.025K
73/04/21	08 45		0.027	0.460	0.066	0.017	0.045
73/05/09	07 36		0.014	0.560	0.054	0.018	0.070
73/06/30	10 45		0.052	0.620	0.042	0.010	0.025
73/08/05	09 05		0.280	0.340	0.020	0.015	0.030

STORET RETRIEVAL DATE 74/07/02

3303F1 LS3303F1
43 41 00.0 071 27 30.0
NO NAME
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
0.6 MI N OF HORNETS NEST PT
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	12 55		0.265	0.220	0.009	0.005K	0.011
72/09/09	12 15		0.057	0.150	0.052	0.006	0.012
72/11/04	13 00		0.089	0.350	0.094	0.008	0.018
73/01/07	11 45		0.160	0.400	0.020	0.006	0.010
73/02/03	11 30		0.240	0.220	0.038	0.011	0.025
73/03/03	10 45		0.210	0.170	0.044	0.006	0.010
73/03/18	10 00		0.178	0.350	0.044	0.013	0.035
73/04/08	10 00		0.077	0.110	0.008	0.006	0.006
73/04/21	09 05		0.052	0.160	0.005K	0.006	0.020
73/05/09	07 49		0.046	0.120	0.014	0.012	0.040
73/06/30	11 00		0.098	0.300	0.037	0.007	0.015
73/08/05	09 15		0.093	0.180	0.040	0.007	0.015

STORET RETRIEVAL DATE 74/07/02

3303G1 LS3303G1
43 43 00.0 071 27 00.0
LK KANASATKA-BLACKEY COVE CONNEC
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
0.5 MI NE OF CENTER HARBOR
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/09/26	13 45		0.013	0.210	0.023	0.007	0.007
72/09/09	12 30		0.018	0.300	0.031	0.005K	0.012
72/10/07	12 40		0.016	0.300	0.033	0.005K	0.012
72/11/04	14 20		0.029	0.200	0.044	0.005K	0.007
72/12/03	11 05		0.026	0.230	0.008	0.005K	0.007
73/01/07	12 10		0.012	0.380	0.032	0.005K	0.005K
73/02/03	11 35		0.035	0.240	0.040	0.005K	0.010
73/03/03	11 00		0.048	0.250	0.027	0.005K	0.010
73/03/18	10 10		0.052	0.320	0.042	0.007	0.015
73/04/08	10 05		0.040	0.180	0.011	0.005K	0.005K
73/04/21	09 15		0.030	0.250	0.012	0.005K	0.020
73/05/09	08 28		0.010K	0.145	0.012	0.009	0.030
73/06/30	11 20		0.010K	0.270	0.016	0.005K	0.005K
73/08/05	08 50		0.010K	0.160	0.021	0.005K	0.005K

STORET RETRIEVAL DATE 74/07/02

3303H1 LS3303H1
43 43 00.0 071 25 30.0
NO NAME
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
0.8 MI UPSTREAM OF COVE
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	13 50		0.039	0.500	0.081	0.005K	0.016
72/09/09			0.165		0.198	0.006	0.016
72/10/07	12 50		0.017	0.700	0.063	0.005K	0.012
72/11/04	14 30		0.037	0.330	0.090	0.005K	0.007
73/01/07	12 20		0.027	1.380	0.088	0.005K	0.005K
73/02/03	11 45		0.115	0.390	0.058	0.005K	0.015
73/03/03	11 25		0.037	0.820	0.050	0.007	
73/03/18	10 15		0.046	0.300	0.031	0.006	0.020
73/04/08	10 10		0.010K	0.180	0.011	0.005K	0.005K
73/04/21	09 20		0.014	0.320	0.017	0.005K	0.015
73/05/09	08 31		0.010K	0.220	0.020	0.009	0.035
73/06/30	11 20		0.010K	0.500	0.064	0.005K	0.010
73/08/05	10 30		0.010K	0.400	0.050	0.005K	0.005K

STORET RETRIEVAL DATE 74/07/02

3303J1 LS3303J1
43 44 30.0 071 23 30.0
HALFWAY BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
XING 0.3 MI UPSTREAM FROM LEES MILLS
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	14	15	0.410	0.210	0.120	0.005K	0.010
72/09/09			0.845	0.150	0.052	0.005K	0.009
72/11/04	15	02	0.900	0.120	0.067	0.005K	0.005K
72/12/03	11	45	0.680	0.460	0.023	0.005K	0.007
73/01/07	12	45	0.530	0.190	0.019	0.005K	0.005K
73/02/03	12	25	0.430	0.720	0.056	0.005K	
73/03/03	11	45	0.510	0.100K	0.007	0.005K	0.005K
73/03/18	10	30	0.650	0.370	0.063	0.009	0.025
73/04/08	10	25	0.399	0.100K	0.007	0.005K	0.005K
73/04/21	09	30	0.850	0.100K	0.007	0.005K	0.010
73/05/09	08	42	0.500	0.330	0.012	0.009	0.030
73/06/30	11	50	0.370	0.250	0.019	0.005K	0.005K
73/08/05	09	50	0.220	0.100K	0.044	0.019	0.040

STORET RETRIEVAL DATE 74/07/02

3303K1 LS3303K1
43 44 00.0 071 21 30.0
SHANNON BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 109 BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	15 10		0.286	0.420	0.126	0.005K	0.022
72/09/09	13 30		0.242	0.250	0.073	0.005K	0.014
72/10/07	13 30		0.041	0.650	0.092	0.005K	0.013
72/11/04	15 30		0.410	0.280	0.091	0.005K	0.007
72/12/03	12 00		0.390	0.190	0.013	0.005K	0.005
73/01/07	13 00		0.294	0.500	0.040	0.005K	0.005K
73/02/03	12 50		0.294	0.142	0.039	0.005K	0.015
73/03/03	12 00		0.336	0.150	0.023	0.005K	0.005K
73/03/18	10 35		0.320	0.355	0.046	0.006	0.025
73/04/08	10 35		0.250	0.452	0.019	0.005K	0.007
73/04/21	10 00		0.500	0.140	0.005K	0.005K	0.010
73/05/09	08 48		0.242	0.130	0.021	0.009	0.035
73/06/30	12 00		0.210	0.310	0.025	0.005K	0.010
73/08/05	09 55		0.132	0.330	0.042	0.019	0.035

STORET RETRIEVAL DATE 74/07/02

3303L1 LS3303L1
43 41 30.0 071 18 30.0
MELVIN RIVER
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 109 BRDG AT MELVIN VILLAGE
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	14	46	0.140	0.500	0.105	0.033	0.037
72/09/09	08	10	0.090	1.200	0.170	0.021	0.026
72/10/07	08	28	0.039	0.750	0.069	0.005K	0.026
72/11/04	09	15	0.198	0.440	0.088	0.005K	0.015
72/12/09			0.168	0.460	0.020	0.005K	0.010
73/01/13	08	35	0.160	0.560	0.039	0.010	0.010
73/02/03	08	05	0.105	0.282	0.046	0.005K	0.015
73/03/03	08	15	0.150	0.400	0.035	0.005K	0.010
73/03/17	08	15	0.147	0.905	0.044	0.005K	0.010
73/04/07	12	35	0.056	0.150	0.010	0.005K	0.010
73/05/05	08	29	0.120	0.300	0.030	0.008	0.020
73/06/09	08	25	0.062	0.860	0.061	0.005K	0.020
73/07/01	06	10	0.048	0.500	0.039	0.012	0.030

STORET RETRIEVAL DATE 74/07/02

3303M1 LS3303M1
43 41 00.0 071 17 30.0
WINGATE BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY BRDG BETWEEN COPPS POND-MELVIN BA
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	14 47		0.180	0.690	0.060	0.018	0.025
72/09/09	09 20		0.163	1.000	0.273	0.014	0.030
72/11/04	10 05		0.029	0.440	0.084	0.005K	0.012
72/12/09	08 02		0.033	1.680	0.096	0.005K	0.012
73/01/13	09 22		0.044	0.400	0.059	0.005K	0.010
73/02/03	10 20		0.037	0.242	0.087	0.005K	0.010
73/03/03	09 30		0.048	0.375	0.066	0.005K	0.010
73/03/12	09 25		0.048	0.420	0.058	0.006	0.015
73/04/07	10 55		0.012	0.140	0.013	0.005K	0.010
73/04/21	09 20		0.034	0.390	0.086	0.006	0.040
73/05/05	09 20		0.020	0.350	0.025	0.008	0.025
73/06/09	09 20		0.024	0.380	0.039	0.005K	0.020
73/07/01	07 12		0.015	0.520	0.042	0.011	0.020

STORET RETRIEVAL DATE 74/07/02

3303N1 LS3303N1
43 40 00.0 071 17 00.0
TWENTY MILE BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 109 BRDGE
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	14 40		0.042	0.500	0.126	0.006	0.012
72/09/09	09 26		0.052	0.500	0.074	0.005K	0.011
72/10/07	10 50		0.032	0.850	0.168	0.007	0.015
72/11/04	10 45		0.037	0.720	0.105	0.007	0.020
72/12/09			0.023	0.360	0.023	0.005K	0.011
73/02/03	11 35		0.042	0.208	0.044	0.005K	0.005K
73/03/03	12 05		0.050	0.420	0.015	0.005K	0.005K
73/03/17	10 45		0.026	0.250	0.022	0.005K	0.010
73/04/07	08 40		0.010K	0.240	0.009	0.005K	0.015
73/04/21	10 30		0.021	0.520	0.086	0.015	0.045
73/05/05	10 32		0.015	0.500	0.030	0.010	0.035
73/06/09	10 10		0.013	0.360	0.031	0.005K	0.025
73/07/01	08 20		0.012	0.750	0.078	0.012	0.020

STORET RETRIEVAL DATE 74/07/02

3303P1 LS3303P1
43 37 00.0 071 15 30.0
MIRROR LK-WINTER HARBOR CONNECT
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
1 MI NNW OF KEEWAYDEN
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	14 20		0.050	0.900	0.190	0.009	0.037
72/09/09	11 21		0.034	0.500	0.044	0.005K	0.009
72/10/07	13 48		0.054	0.450	0.120	0.007	0.029
72/11/04	15 35		0.030	0.180	0.147	0.005K	0.010
72/12/09	11 10		0.023	1.050	0.056	0.005K	0.015
73/01/13	15 40		0.042	1.260	0.084	0.012	0.012
73/02/03	12 55		0.046		0.031	0.005K	0.005K
73/03/03	13 15		0.050	0.300	0.010	0.005K	0.005K
73/03/17	13 20		0.075	1.260	0.058	0.005K	0.010
73/04/07	06 10		0.052	0.400	0.036	0.005K	0.010
73/06/09	14 10		0.011	0.180	0.021	0.005K	0.015
73/07/01	10 35		0.010K	0.280	0.147	0.005K	0.010

STORET RETRIEVAL DATE 74/07/02

330301 LS330301
43 36 00.0 071 12 00.0
LK WENTWORTH-CRESCENT LK CONNECT
33 15 WOLFEBORO
I/LAKE WINNIPESAUKEE
SECONDARY RD BRDG ABOVE WOLFEBORO STP
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	13 35		0.023	0.300	0.058	0.007	0.007
72/09/09	12 00		0.030	0.500	0.138	0.005K	0.008
72/11/04			0.026	0.310	0.058	0.005K	0.014
73/01/07	11 55		0.029	0.240	0.023	0.005K	0.005K
73/02/03	12 30		0.038	0.157	0.029	0.005K	0.005K
73/03/03			0.042	0.350	0.020	0.005K	0.005K
73/03/17	12 30		0.060	0.300	0.042	0.005K	0.010
73/04/07	12 00		0.042	0.240	0.016	0.005K	0.015
73/04/21	11 20		0.034	0.250	0.005K	0.005K	0.015
73/05/05	12 00		0.026	0.190	0.005K	0.005K	0.010
73/06/09	11 30		0.020	0.240	0.029	0.008	0.030
73/07/01	11 30		0.022	0.440	0.048	0.012	0.020

STORET RETRIEVAL DATE 74/07/02

330302 LS330302
43 35 00.0 071 13 00.0
FRONT BAY-WOLFEBORO BAY CONNECT
33 15 WOLFEBORO
I/LAKE WINNIPESAUKEE
ST HWY 109 BRDG BELOW WOLFEBORO STP
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	14 00		0.028	3.740	0.069	0.060	0.132
72/09/09	11 15		0.030	0.900	0.096	0.033	0.087
72/10/07	11 30		0.081	1.050	0.410	0.062	0.168
72/12/09	12 30		0.031	0.420	0.044	0.012	0.022
73/01/07	12 30		0.029	0.540	0.070	0.009	0.020
73/02/03	13 00		0.080	0.302	0.078	0.008	0.030
73/03/03			0.042	0.230	0.029	0.006	0.010
73/03/17	12 00		0.075	0.420	0.065	0.005K	0.010
73/04/07	12 30		0.033	0.220	0.006	0.005K	0.010
73/04/21	12 00		0.034	0.280	0.021	0.006	0.020
73/05/05	11 45		0.033	0.310	0.033	0.011	0.030
73/06/09	12 00		0.017	0.150	0.022	0.005K	0.015

STORET RETRIEVAL DATE 74/07/02

3303S1 LS3303S1
43 33 30.0 071 11 30.0
NO NAME
33 15 WOLFEBORO
T/LAKE WINNIPESAUKEE
ST HWY 28 BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	11	55	0.078	0.560	0.035	0.006	0.024
72/09/09	10	20	0.131	0.150	0.044	0.006	0.010
72/10/07	11	00	0.020	0.700	0.210	0.009	0.019
73/01/13	11	15	0.087	0.540	0.042	0.005<	0.015
73/02/03	11	30	0.048	0.175	0.040	0.005<	0.025
73/03/03			0.072	0.350	0.020	0.005<	0.010
73/03/17	11	00	0.074	0.420	0.023	0.006	0.030
73/04/07	11	00	0.031	0.100<	0.007	0.005<	0.015
73/04/21	10	45	0.039	0.170	0.007	0.005<	0.010
73/06/09	11	00	0.048	0.170	0.019	0.005<	0.035
73/07/01	11	40	0.034	0.680	0.044	0.009	0.015

STORET RETRIEVAL DATE 74/07/02

3303R1 LS3303R1
43 34 00.0 070 10 30.0
RUST POND-LK WINNIPESAUKEE CONN
33 15 WOLFEBORO
1/LAKE WINNIPESAUKEE
ST HWY 28 BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	12 05		0.032	0.180	0.050	0.011	0.011
72/09/09	10 30		0.036	0.250	0.056	0.009	0.014
72/10/07	11 15		0.023	0.550	0.250	0.007	0.016
72/11/04			0.023	0.340	0.055	0.005K	0.014
72/12/09	11 31		0.020	0.350	0.023	0.005K	0.015
73/01/13	11 35		0.068			0.007	0.025
73/02/03	12 00		0.048	0.265	0.046	0.005K	0.010
73/03/03			0.042	0.380	0.027	0.005K	0.005K
73/03/17	11 30		0.066	0.560	0.189	0.005K	0.012
73/04/07	11 30		0.021	0.170	0.009	0.005K	0.010
73/04/21	11 00		0.028	0.350	0.038	0.005K	0.015
73/05/05	11 30		0.011	0.280	0.015	0.005K	0.010
73/06/09	11 15		0.010K	0.110	0.015	0.005K	0.015
73/07/01	10 00		0.017	0.325	0.035	0.005K	0.005K

STORET RETRIEVAL DATE 74/07/02

3303T1 LS3303T1
43 33 00.0 071 11 30.0
KNIGHTS POND-LK WINNIPESAUKEE
33 15 WOLFEBORO
T/LAKEWINNIPESAUKEE
ST HWY 28 BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	11 40		0.047	0.335	0.040	0.016	0.029
72/09/09	10 20		0.104	0.300	0.100	0.009	0.019
72/10/07	10 45		0.084	0.850	0.330	0.024	0.064
72/12/09	10 30		0.028	0.840	0.048	0.005K	0.013
73/02/03	11 00		0.046	0.240	0.031	0.005K	0.015
73/03/03			0.032	1.600	0.096	0.005K	0.010
73/03/17	10 30		0.052	0.200	0.031	0.005K	0.015
73/04/07	10 30		0.010K	0.170	0.007	0.005K	0.015
73/04/21	10 20		0.019	0.520	0.012	0.005K	0.025
73/05/05	11 00		0.022	0.290	0.010	0.006	0.020
73/06/09	10 45		0.032	0.302		0.005K	0.020
73/07/07	11 21		0.014	0.390	0.025	0.009	0.015

STORET RETRIEVAL DATE 74/07/02

3303U1 LS3303U1
43 32 30.0 071 12 30.0
BEAVER BROOK
33 15 WOLFEBORO
T/LAKE WINNIPESAUKEE
ST HWY 28 BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	11	25	0.060	0.665	0.048	0.005K	0.025
72/09/09	10	00	0.056	0.325	0.057	0.005K	0.015
72/10/07	10	15	0.026	0.600	0.100	0.006	0.020
72/11/04			0.045	0.870	0.115	0.005K	0.014
73/01/13	10	05	0.056	1.200	0.038	0.005K	0.010
73/02/03	10	30	0.050	0.175	0.031	0.005K	0.015
73/03/03			0.061	0.610	0.036	0.005K	0.015
73/03/17	10	00	0.050	0.310	0.034	0.005K	0.015
73/04/07	10	00	0.010K	0.120	0.009	0.005K	0.010
73/04/21	10	00	0.019	0.620	0.024	0.005K	0.025
73/05/05	11	45	0.022	0.310	0.012	0.007	0.020
73/06/09	10	30	0.023	0.290	0.038	0.005K	0.020
73/07/01	10	20	0.014	0.480	0.037	0.009	0.015

STORET RETRIEVAL DATE 74/07/02

3303V1 LS3303V1
43 31 00.0 071 14 00.0
HURD BROOK
33 15 WOLFEBORO
T/LAKE WINNIPESAUKEE
BRDG 0.3 MI UPSTREAM FROM MOUTH
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26			0.082	0.720	0.075	0.007	0.022
72/09/09	11 40		0.100	0.450	0.083	0.006	0.014
72/10/07	15 00		0.042	1.100	0.252	0.010	0.060
72/11/04	12 05		0.028	0.420	0.120	0.005K	0.010
73/02/03	11 32		0.026	0.352	0.036	0.005K	0.015
73/03/03	11 50		0.056	0.130	0.029	0.005K	0.005K
73/03/17	14 40		0.035	0.400	0.040	0.005K	0.030
73/04/07	11 30		0.011	0.150	0.010	0.005K	0.015
73/04/21	11 00		0.023	0.460	0.042	0.005K	0.020
73/05/06	10 20		0.018	0.340	0.062	0.017	0.030
73/06/09	12 00		0.034	4.600	0.020	0.005K	0.015
73/07/01	11 00		0.180	0.500	0.118	0.005K	0.010

STORET RETRIEVAL DATE 74/07/02

3303W1 LS3303W1
43 27 00.0 071 13 00.0
MERRY MEETING RIVER
33 15 ALTON
T/LAKE WINNIPESAUKEE
BRDG 2.2 MI UPSTREAM OF ALTON BAY
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26			0.058	0.920	0.054	0.005K	0.019
72/09/09	11 15		0.051	0.450	0.077	0.010	0.017
72/10/07	14 15		0.032	0.950	0.097	0.006	0.018
72/11/04	11 30		0.027	0.340	0.058	0.005K	0.011
72/12/09	11 30		0.036	0.300	0.021	0.005K	0.008
73/01/13	12 30		0.076			0.005K	0.015
73/02/03	12 00		0.058	0.420	0.069	0.005K	0.010
73/03/03	12 15		0.070	0.265	0.026	0.005K	0.010
73/03/17	14 20		0.044	0.200	0.028	0.005K	0.010
73/04/07	11 50		0.010K	0.220	0.008	0.005K	0.015
73/04/21	11 40		0.017	0.630	0.013	0.005K	0.020
73/05/06	10 00		0.012	0.440	0.037	0.012	0.020
73/06/09	12 45		0.012	0.390	0.018	0.005K	0.017
73/07/01	11 30		0.014	0.440	0.040	0.005K	0.015

STORET RETRIEVAL DATE 74/07/02

3303X1 LS3303X1
43 30 00.0 071 15 30.0
WATSON BROOK
33 15 GILMANTON
T/LAKE WINNIPESAUKEE
ST HWY 11 BRDG AT LOON COVE
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	12 45		0.062	0.395	0.056	0.012	0.021
72/09/09	11 00		0.067	0.200	0.115	0.005K	0.007
72/10/07	13 45		0.038	0.450	0.068	0.005K	0.017
72/12/09	10 45		0.013	0.260	0.013	0.005K	0.005K
73/01/13	13 00		0.035	0.250	0.037	0.005K	0.005
73/02/03	12 45		0.023	0.190	0.056	0.005K	0.020
73/03/03	11 20		0.060	0.480	0.054	0.007	0.030
73/03/17	14 10		0.037	0.620	0.080	0.007	0.040
73/04/07	12 05		0.010K	0.100K	0.010	0.005K	0.010
73/04/21	11 20		0.019	0.280	0.025	0.005K	0.025
73/05/06	09 50		0.010K	0.210	0.022	0.010	0.010
73/06/09	12 30		0.018	0.270	0.013	0.005K	0.015
73/07/01	11 15		0.014	0.350	0.017	0.005K	0.010

STORET RETRIEVAL DATE 74/07/02

3303Y1 LS3303Y1
43 32 30.0 071 18 00.0
ALTON BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 11 BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/09/10	10 45		0.088	0.200	0.080	0.006	0.023
72/10/07	11 15		0.026	0.250	0.066	0.010	0.017
72/11/04	12 00		0.022	0.160	0.065	0.007	0.010
73/01/14	11 45		0.040	0.150	0.038	0.004	0.006
73/02/03	11 45		0.037	0.380	0.009	0.005K	0.075
73/03/03	11 30		0.040	0.420	0.044	0.005K	0.005K
73/03/17	12 45		0.054	0.330	0.042	0.005K	0.040
73/04/07	12 10		0.016	0.100K	0.015	0.005K	0.010
73/04/21	12 00		0.012	0.100K	0.015	0.005K	0.015
73/05/09	15 15		0.011	0.210	0.012	0.010	0.015
73/06/11	08 45		0.132	0.100K	0.010	0.005K	0.015
73/07/01	11 30		0.020	0.750	0.430	0.006	0.010

STORET RETRIEVAL DATE 74/07/02

3303Z1 LS3303Z1
43 34 30.0 071 21 30.0
POORFARM BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 11 BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	12 10		0.176	0.500	0.075	0.009	0.053
72/09/10	10 45		0.370	0.400	0.060	0.006	0.010
72/11/04	11 00		0.028	0.490	0.138	0.006	0.016
72/12/09	12 30		0.066	1.300	0.081	0.007	0.010
73/01/14	11 30		0.093	0.220	0.060	0.005K	0.005K
73/02/03	11 00		0.063	0.390	0.029	0.005K	0.080
73/03/03	11 00		0.147	0.190	0.072	0.005K	0.010
73/03/17	12 20		0.080	0.330	0.056	0.009	0.055
73/04/07	11 15		0.037	0.100K	0.011	0.005K	0.010
73/04/21	11 30		0.023	0.100K	0.013	0.005K	0.010
73/05/09	15 00		0.021	0.190	0.016	0.009	0.015
73/06/11	08 20		0.132	0.180	0.009	0.005K	0.025
73/07/01	11 00		0.033	0.540	0.170	0.006	0.010

STORET RETRIEVAL DATE 74/07/02

330321 LS330321
43 34 30.0 071 24 30.0
GUNSTOCK RIVER
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 11 BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	11 55		0.315	0.830	0.064	0.013	0.055
72/09/10	10 31		0.268	0.850	0.066	0.014	0.022
72/10/07	10 45		0.350	0.250	0.049	0.005K	0.015
72/11/04	10 45		0.115	0.210	0.038	0.005K	0.010
73/01/14	09 30		0.147	1.150	0.190	0.005K	0.020
73/02/03	10 45		0.126		0.042	0.020	
73/03/03	10 40		0.378	0.150	0.025	0.005K	0.010
73/03/17	12 00			0.630			0.072
73/04/07	10 45		0.160	0.200	0.044	0.005K	0.015
73/04/21	11 00		0.154	0.100K	0.020	0.005K	0.010
73/05/09	12 15		0.170	0.260	0.018	0.009	0.010
73/06/11	08 15		0.240	0.240	0.038	0.005K	0.030
73/07/01	10 45		0.080	0.265	0.036	0.006	0.015

STORET RETRIEVAL DATE 74/07/02

330331 LS330331
43 35 00.0 071 24 30.0
MEADOW BROOK
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 11B BRDG
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	11 45		0.160	1.260	0.100	0.012	0.076
72/09/10	10 10		0.156	0.800	0.130	0.021	0.034
72/11/04	10 30		0.088	0.660	0.154	0.008	0.030
73/01/14	10 15		0.310	0.560	0.058	0.005K	0.010
73/02/03	10 25		0.154	0.480	0.100	0.005K	0.040
73/03/03	10 15		0.200	0.980	0.550	0.005K	0.025
73/03/17	11 30		0.140	0.560	0.138	0.006	0.020
73/04/07	10 30		0.105	0.420	0.176	0.005K	0.015
73/04/21	10 30		0.098	1.050	0.580	0.007	0.025
73/05/08	14 00		0.105	1.380	0.540	0.013	0.030
73/06/11	08 00		0.096	0.850	0.240	0.005K	0.035
73/07/01	10 30		0.042	0.990	0.147	0.052	0.060

STORET RETRIEVAL DATE 74/07/02

330341 LS330341
43 39 00.0 071 16 30.0
NINETEEN MILE BROOK
33 15 WINNIPE SAUKE
ET/LAKE WINNIPESAUKEE
ST HWY 109 BRDG AT UNION WARF
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	14	35	0.117	0.630	0.078	0.024	0.035
72/09/09	10	00	0.023	0.360	0.030	0.005K	0.011
72/10/07	10	32	0.030	0.450	0.215	0.005K	0.015
72/11/04	11	40	0.040	0.500	0.100	0.006	0.028
72/12/09	11	55	0.078	0.970	0.074	0.005K	0.015
73/01/13	13	50	0.026	0.500	0.031	0.005K	0.005K
73/02/03	09	15	0.050	0.570	0.018	0.005K	0.005K
73/03/03	10	40	0.054	0.300	0.021	0.005K	0.005K
73/03/17	12	10	0.132	0.340	0.037	0.005K	0.015
73/04/07	07	30	0.048	0.210	0.016	0.005K	0.015
73/04/21	11	30	0.033	0.370	0.048	0.005K	0.020
73/05/05	11	54	0.031	0.420	0.023	0.008	0.030
73/06/09	11	35	0.016	0.300	0.036	0.007	0.020
73/07/01	09	40	0.011	0.690	0.063	0.017	0.025

STORET RETRIEVAL DATE 74/07/02

330351 LS330351
43 44 30.0 071 24 30.0
RED HILL RIVER
33 15 WINNIPESAUKEE
T/LAKE WINNIPESAUKEE
ST HWY 25 XING AT MOULTONBOROUGH FALLS
11EPALES 2111204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P
72/08/26	13	20	0.047	0.550	0.063	0.014	0.016
72/09/09	13	00	0.022	0.250	0.033	0.010	0.013
73/01/07	12	30	0.067	0.400	0.027	0.005K	0.015
73/02/03	12	15	0.069	0.302	0.019	0.005K	0.010
73/03/03	11	35	0.088	0.250	0.027	0.005K	0.010
73/03/18	10	25	0.080	1.320	0.083	0.006	0.025
73/04/08	10	20	0.021	0.230	0.008	0.005K	0.010
73/04/21	09	40	0.025	0.200	0.005K	0.005K	0.015
73/05/06	11	15	0.038	0.210	0.017	0.005K	0.020
73/05/09	08	37	0.018	0.360	0.032	0.010	0.015
73/06/30	11	15	0.012	0.500	0.037	0.005K	0.025
73/08/05	09	35	0.014	0.400	0.029	0.008	0.015

STORET RETRIEVAL DATE 74/07/02

330350 TF330350 P001000
43 39 30.0 071 30 00.0
MEREDITH
33 15 WINNIPESAUKIE
T/LAKE WINNIPESAUKIE
HAWKINS BROOK
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
72/12/19	14 00								
CP(T)-			1.600	12.600	2.300	2.950	4.000	0.150	
72/12/19	16 00								
73/01/31	08 00								
CP(T)-			2.100	19.000	11.500	2.850	4.600	0.143	
73/01/31	16 00								
73/07/16	11 00								
CP(T)-			2.400	15.400	8.600	5.600	7.700		
73/07/16	16 00								
73/09/25	08 00								
CP(T)-			7.900	13.000	10.000	6.200	6.600	1.120	
73/09/25	16 00								
73/10/17	08 00								
CP(T)-			9.600	11.500	7.600	7.400	8.200	0.092	
73/10/17	16 00								
74/01/31	08 00								
CP(T)-			1.920	10.000	6.200	1.800	4.300	0.260	
74/01/31	16 00								

STORET RETRIEVAL DATE 74/07/02

330305 TF330305 P002000
43 35 30.0 071 12 30.0
WOLFEBORO
33 15 WOLFEBORO
T/LAKE WINNIPESAUKIE
CONNECTION LAKES WENTWORTH/CRESCENT
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
73/01/25	07 30								
CP(T)-			1.050	11.000	3.400	1.200	3.300	0.472	0.360
73/01/25	13 30								
73/02/23	07 30								
CP(T)-			0.640	16.800	5.200	1.800	5.000	0.308	0.359
73/02/23	13 30								
73/03/26	09 15								
CP(T)-			0.870	19.800	4.600	2.100	4.800	0.349	0.440
73/03/26	13 00								
73/04/26	08 40								
CP(T)-			0.430	34.050	8.400	2.450	7.800	0.360	0.462
73/04/26	14 05								
73/05/29	07 20								
CP(T)-			0.620	11.000	3.710	1.329	3.100	0.392	0.420
73/05/29	13 20								
73/06/27	07 30								
CP(T)-			0.227	13.800	5.800	2.300	5.100	0.435	0.397
73/06/27	13 00								
73/07/27	07 30								
CP(T)-			0.060	22.000	9.100	2.800	8.200	0.511	0.420
73/07/27	13 30								
73/08/27	07 45								
CP(T)-				25.800	11.100	4.460	9.700	0.328	0.429
73/08/27	13 00								
73/09/25	08 00								
CP(T)-			0.250	22.500	15.000	3.400	7.400	0.324	0.358
73/09/25	13 30								
73/10/31	07 30								
CP(T)-			0.480	22.000	7.500	2.100	7.000	0.207	0.319
73/10/31	13 00								
73/11/26	07 30								
CP(T)-			0.160	21.000	8.000	2.900	6.900	0.162	0.288
73/11/26	12 30								
73/12/26	07 00								
CP(T)-			0.940	19.500	2.800	1.200	3.150	0.247	0.314
73/12/26	13 00								

STORET RETRIEVAL DATE 74/07/02

330305 TF330305 P002000
43 35 30.0 071 12 30.0
WOLFEBORO
33 15 WOLFEBORO
T/LAKE WINNIPESAUKIE
CONNECTION LAKES WENTWORTH/CRESCENT
11EPALES 2141204
4 0000 FEET DEPTH

DATE FROM TO	TIME OF DAY	DEPTH FEET	00630 NO2&NO3 N-TOTAL MG/L	00625 TOT KJEL N MG/L	00610 NH3-N TOTAL MG/L	00671 PHOS-DIS ORTHO MG/L P	00665 PHOS-TOT MG/L P	50051 FLOW RATE INST MGD	50053 CONDUIT FLOW-MGD MONTHLY
74/01/28	07 00		0.040	7.700	2.080	0.960	2.600	0.450	0.272
CP(T)-									
74/01/28	13 30								